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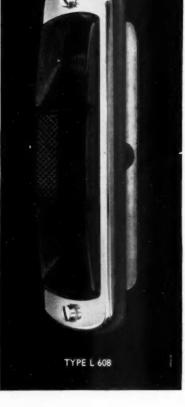




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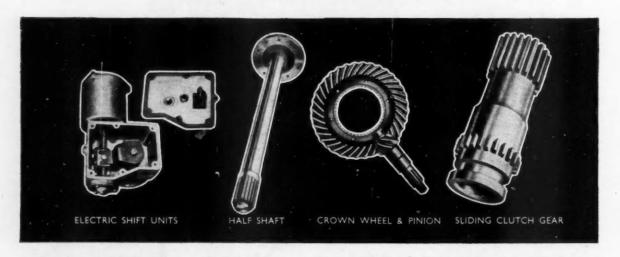
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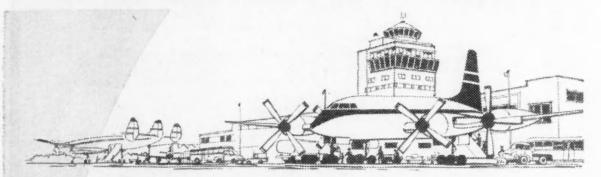




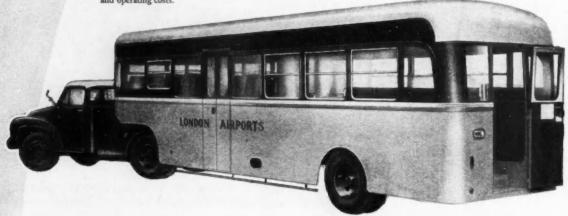
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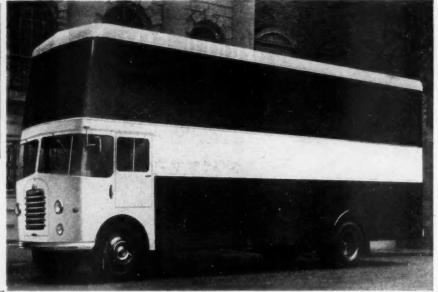
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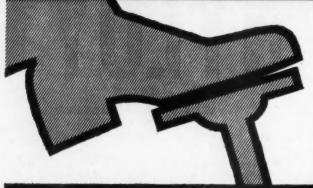
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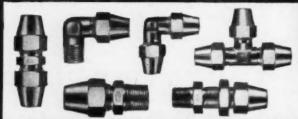
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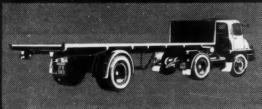
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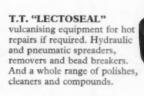




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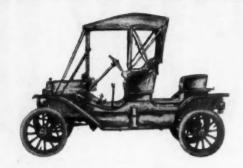
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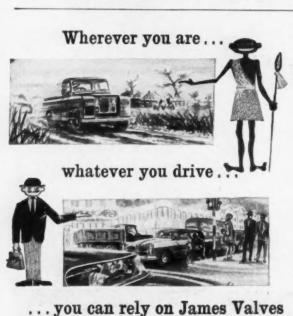
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INDEX TO ADVERTISERS

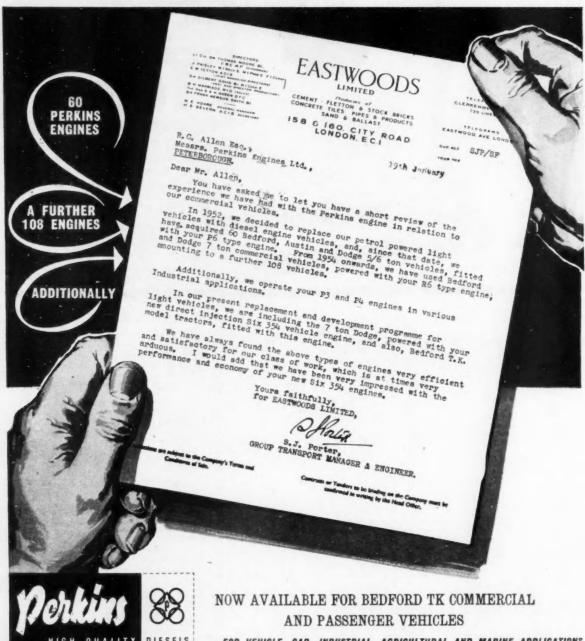
Name			-	age
A				
A.E.C., Ltd	**	Fron	t C	Sver
Andrews Bros., Ltd	**	**	4.0	19
Anthony Hoists (Successors),	Ltd.			7
Apaseal, Ltd	2.2	**		17
Arlington Bodybuilders, Ltd.	* 1			37
Atlantic Steam Navigation Co	., Ltd.	4.1	**	26
Austin Motor Co., Ltd., The	**			29
В				
B.I.P. Chemicals, Ltd				40
Boyes, W. J., & Son, Ltd.	**	5.5		80
Boys, Henry, & Son, Ltd.	* *	* *	8.8	78
Brady, G., & Co., Ltd.	**	* *	* *	22
			* *	41
British Belting & Asbestos, Lt		**	* 8	
British Trailer Co., Ltd	* 5	6.8	* *	8
Brackhouse, J., & Co., Ltd.		* *	71.5	79
Burnley Aircraft Products, Ltd	1.	* *	7.5	6
С				
Capital Motor Co., Ltd	* *			18
Car Mart, Ltd., The		**	**	44
C.A.V., Ltd	Inside	Fron	t Co	ver
Chapman, A. W., Ltd.				14
Clayton Dewandre Co., Ltd.		e Baci		ver
Commer Cars, Ltd				1
Continental Tyres & Rubber Pr				26
D				
Dagenham Motors, Ltd				79
Darham Industries (London), L		1.3	4.6	10
				79
	1.4	**	4.6	
Dayson & Co. (Coachbuilders)	, Ltd.	44	**	24
Dover Roller Shutters, Ltd.	**	**	* *	13
Drummond-Asquith, Ltd.	**	**	* 8	25
E				
Eaton Axles, Ltd				4
Express Motor & Body Works	Ltd.	4.6		78
Eaton Axles, Ltd		**		

rasme				r	age
F					
Fainir Bearing Co., Ltd.	0.0				20
Ferraris of Cricklewood	Led.		44		80
Firemaster Extinguisher	Ltd.				22
Firestone Tyre and Rub	ber Co	s., Le	d. Ba	ck Co	ver
Fletcher Miller, Ltd.		**	17	**	12
G					
Girling, Ltd	* *		3.0-		23
Goodyear Tyre and Britain), Ltd.	Rubb	er C	Co. (C	reat	34
Great Western Motors					78
mi and i reason in the term		*		**	,
H					
Hartridge, Leslie, Ltd.					78
Hills Garages (Manchest	er). Li	d.			10
			**		79
Holmes (Preston), Ltd.					3
Holts Shutters, Ltd.					18
	**				
1					
Imperial Aluminium Co.	Ltd.		4.0		35
India Tyre & Rubber Co	Ltd.			38 &	39
I.T.D., Ltd				* *	78
				-,	
1					
James, Geo. O., Ltd.	++	**	* *	**	80
James, W. G., Ltd.	**	**	**		22
John Bul Rubber Co., L	td.	**	**	8.6	30
Joy, Edward, Ltd	4.			5.0	24
London Transport Execu	tive	8.8	* *	* 6	16
м					
Mann Egerton & Co., Ltd	d.		**	14	27
Marshall/Mulliner Buses			**		9
Matthews, H., Ltd.					79
Mischell, L. A. (Motors),	Led.				79
Multiwheeler (Commerc	ial Vel	hicles			26
Mutual Finance, Ltd.					36

Name					age
N					
North Central Wagon	k Fin	ance C	o., Lte	d	2
P					
Perkins Engines, Ltd.	**				28
Primrose Group Sales	7.		**	+.	79
Q					
Quick, H. & J. Ltd.	**	**	**	**	16
R					
Raybestos-Belaco, Ltd.	**	7.5	**	**	20
s					
Seddon Diesel Vehicles,	Ltd.			44	5
Shell-Mex and B.P., Ltd.			**		11
Sheppard Fabrications, L	.td.			8.0	12
Simms Motor Units, Ltd		**			31
Simplifix Couplings, Ltd		**	**		14
Sparshatt, J. H., & Sons,	Ltd.	**	5.0	**	21
7					
Taskers of Andover (193	2) 1	rd			24
Transport Equipment (V			, Ltd.	**	79
u					
United Dominions Trust	(Co	mmers	ials), l	Led.	43
Vauxhall Motors, Ltd				32.8	22
Villiers, John, & Co., Ltd	1.	**		4.7	42
w					
Watts (Factors), Ltd.					24
Westinghouse Brake & 5	innel	Ca i	**	* 0	26
Westinghouse brake & ' Weston Works (Birmin			.cu.	- 9	90
** ESCON **OFKS (BIFMIN)	gnam	r red		2.0	15

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Heat Exhaustion

HOT weather, when it occurs, makes news in Britain, but it also carries a warning to conscientious operators to "watch those tyres, particularly on motorways." Recently a lot of unfortunate publicity attended the crash in France of a British touring coach, and the blame was placed on a tyre failure. Whether this was fair will perhaps never be proved, but it does serve to show the unpleasant consequences that could follow tyre misuse and neglect. It just is not worth an operator's while to try to save by ill-using tyres.

The leaflets and posters issued last year by the Tyre Manufacturers' Conference make quite clear the tyre companies' viewpoint, and this information was by no means issued as a sales stimulant: the safety of all road users was the prime consideration. This also is the underlying factor behind the recent Ministry of Transport decision to look into the question of the 10 per cent. overload allowance at present granted by Certifying Officers in respect of passenger vehicle tyre loadings. Obviously an overloaded tyre which may be quite safe at 30 m.p.h. is going to be subject to considerably greater heat build-up and general stressing at speeds in excess of, say, 55 m.p.h. In hot weather the position becomes even more extreme.

For both goods and passenger vehicles it is generally accepted that original (as opposed to remoulded) tyres in good condition may be used in safety at speeds of up to 60 m.p.h. At above sustained speeds of 60 m.p.h. "special" tyres are recommended, these not necessarily being as frightening as they sound, but merely being tyres with the ability to withstand the increased heat generated in a tyre at such speeds. Such tyres are in production and have casings incorporating steel or nylon, usually combined with tread materials of a mix known to promote cool running.

A vastly overloaded tyre running at high speed for more than a few minutes is in danger of shedding its tread, a process which often culminates in the tyre bursting. This eventuality is more likely to occur in the case of goods rather than passenger vehicles, because overloading is so much a feature of current freight haulage.

As vehicle speed potentials rise, wheel balance and front-wheel alignment become increasingly important, particularly on vehicles with independent front suspension layouts, although such systems are not—as yet—in common use on British heavy vehicles. Lateral stability is important, too, and in this respect the tyre companies can be expected to be paying more attention to tread patterns and materials in the near future. For the present, though, the tyres for safe operation on motorways are available: it is up to operators to make sure their vehicles have them.

Does it Pay?

REVOLUTION is a strong word. But it is indicative of the changes and development which have occurred in the road transport industry over the past 50 years. Yet one thing remains the same—the vital necessity of knowing whether each vehicle, like its predecessor the horse, earns its keep. And throughout those 50 years from 1911 to 1961 The Commercial Motor has persistently emphasized the importance and explained the principles of costing vehicle operation through the medium of a weekly series of articles devoted to this subject.

Additionally since 1911 it has published successive Tables of Operating Costs and the new issue, published on Wednesday was, therefore, a Jubilee Edition. Originally a single sheet, this fiftieth edition contains detailed operating costs of 58 types of vehicles. Published annually, it is an invaluable and up-to-date reference book, not only for operators but for all concerned with costs and charging.

IN THIS ---

- Birkenhead likes small buses
 pages 798-800
- Operation of the Adams Butter Fleet pages 801-803
- Radio Control Suits Steel Vehicles
 pages 804 and 805
- M.A.N. Tipper Road Tested pages 806-809
- Janus' Commentary

page 810

- Expansion Trends in Haulage pages 811 and 812
- 50 years of Cost Tables

pages 813-815

B.T.C. Annual Report and Accounts
 page 816

=== NEXT WEEK =

- Reports of three Lorry-Driver Eliminating Rounds
- Aluminium Bodies in Brick Haulage.

Men Who Make

Transport

Kenneth

O the layman there seems no obvious connection between the Derby Carriage and Wagon Works and General Industrial Cleaners—nor, commercially, is there any link-up. By the same token there does not appear to be any technical reason why a young executive from the Wagon company should suddenly cut adrift and join a new set-up whose sole mission in life was, and is, to give an engineers' overall cleaning and replacement service to a wide sector of British industry (and by "overall" is meant the protective garment).

No matter. That is precisely what young Kenneth Turner did way back in 1939. He saw a chance and took it: but not before he had learnt very thoroughly the lesson that hard work pays. "I had that drilled into me by the Works Superintendent of the Derby Carriage and Wagon Works. He was a man who worked like a demon himself and expected everybody else to do the same. It was a good lesson from a wonderful teacher. I only wish that my sons could meet Ernest Pugson's like at the right moment."

Turner is Derbyshire born and Derbyshire bred, though he is just about the last man to whom the rhyming tag "Thick i' th' ed" could be applied. He is by training an administrator but circumstances during 1938 and 1939, when the Wagon Works turned over to aircraft production, forced him into what, for want of a better phrase, one might call an engineering bias. That has stood him in good stead during the years between, though as he stressed to me: "The art of administration is to get other people to do the engineering, accountancy and so on. I am a believer in delegation."

He does not, however, deny that when your company is operating a fleet of more than 70 vehicles, it helps to know what goes on under the engine bonnet.

Bird's Eye View=

Haulage Interest in the Roadrailer

SINCE it was first introduced, the Pressed Steel Co., Ltd., Roadrailer has remained an intriguing idea to combine the best of the road and rail haulage worlds. It was not the first road-rail hybrid nor, I imagine, will it be the last. But where has the past 18 months or so, since it was announced, taken it?

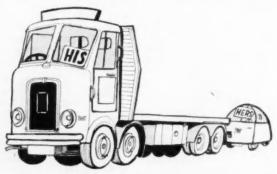
British Railways some time ago ordered 50, delivery of which will start early next year; but are road transport operators interested, I wondered. The company tell me that, so far, no orders have been received from road haulage operators, although a great many have expressed interest in the project.

Steamers Again

TWICE in the past few weeks I have had cause to bring up the subject of steamers in this column. Now, at the risk of being labelled an enthusiast, I must allow another one to trundle in.

The other day I received from Mr. A. H. L. Thompson, the Foden publicity manager, a picture of a 1916 Foden in front of which are that grand old man, Mr. William Foden (who is still active as governing director), his sons, R. G. and J. E. Foden (joint managing directors), Mr. D. C. Foden (J. E.'s son) and his son, Hugh.

I was pleased to see that the steamer still wins prizes at rallies around the countryside.



Find Wilkern

What a Solution!

"THE real answer to traffic congestion is to limit the number of vehicles on the road." This remarkable statement was published in the July issue of the T.G.W.U. Record, in an article by a Mr. Len Cottrell, who also vouchsafes this little homily: "Most of the criticism (or should it be abuse?) that is hurled at British roads seems to come from people who nave not looked very deeply at the root of the problem."

not looked very deeply at the root of the problem."

People, I presume, like hauliers and C licensees, busmen and traffic control experts. People, indeed, such as the considerable body of drivers who, like Mr. Cottrell, are members of the T.G.W.U. I was, therefore, surprised that the Union printed what was virtually an attack on members' livelihoods.

Charles Turner



The new T.R.T.A. president-Mr. K. C. Turner.

Kenneth Charles Turner is a tall, spare man with a lively, direct manner. A caricaturist looking for a model of a Midland businessman of the brusque, "Oop 'ere we doan't stand on ceremony" type, who usually mistakes rudeness for directness, would not find him in Turner,

= By The Hawk =

Out of Step

OBVIOUSLY, by imputation, Mr. Cottrell is satisfied that he has got to the root of the problem. Rather in the same vein as the awkward recruit, he is the only man in step.

He has words to say, too, about urban clearways, considering at "indiscriminate parking of delivery vans" causes conthat "indiscriminate parking of delivery vans gestion. Needless to add, Mr. C. favours these clearways.

I have a less remarkable conclusion than some of Mr. C.'sthat he is no great shakes as a traffic expert.

Barrage

ONE of my lesser feathered friends has complained to me on most pained terms. It appears that he was flying peaceably near Overstone Solarium, Northamptonshire, when his calm was disturbed by a succession of high-velocity cricket balls (intended, he thought, as an anti-bird barrage). However, on inquiring. I find that he chose to pass the area at a time when Mr. John Bishop was doing his best to win a cricket

Regretfully. I also have to report that Mr. Bishop and a team of cricketing removers from the London area (brought down by N.A.F.W.R. Metropolitan area chairman Mr. A. J. Bradick) failed by 5 runs to squash a combined East and West Midlands team of removers, who thereby appropriated a handsome trophy which had been donated by Mr. F. W. H. Winwood. Mr. Winwood is, of course, himself a West Midlands man and was also scorer-but I'm not suggesting anything!

These Overstone outings by the East Midlands area, N.A.F.W.R., are fast becoming a national occasion-and a most enjoyable one at that!

General Industrial Cleaners-"G.I.C." as they are generally known—operate a service that in many respects is novel, at any rate to me. The essence of it is the supply of three free overalls each to the workers of client firms, with one steel locker. At regular, frequent periods, G.I.C.'s vehicles collect the garments for cleaning and return them when cleaned. The service is virtually country-wide-you can see the vans with the firm's insignia as far away from Borrowash as Ferryfield Airport in Kent, where Silver City Airways is one of their clients.

"One of the fundamentals of the whole operation is regularity. The cleaned overalls must be on the client's premises on the day and time stipulated. If not, there's no worth-while service. That's why our vehicles are run as closely to schedule as a passenger transport system. If, for example, I happened to be on London's Old Kent Road at a certain time I could say with certainty that in 10 or 15 minutes one of our vehicles would pass me.'

Today Turner's company occupies large premises in the Village of Borrowash just outside Derby. Altogether more than 450 people are employed but so efficient is the organization that one is not conscious of any bustle and certainly not of any disarray. But this substantial concern has virtually been built up only since the end of the war, though in fact is was founded in 1939. Expansion has been swift. At first Kenneth Turner, as general manager, had to turn his hand to all kinds of jobs-selling, meeting new clients and confirming old ones, smoothing out technical hitches in delivery and collection, sometimes, perhaps, taking a look underneath a van, and at the same time (in concert with his Board) making policy decisions and sharpening up the general organization. Today he is the managing director, the captain on the bridge, who expects that each of his subordinates will do the job entrusted to him without continual prompting.

Likes His Employees

It is one of his more illuminating characteristics that he likes his workpeople very much indeed. " All the talk about British people not working hard, the kind of loose talk you sometimes hear in pubs, is in my opinion, just so much boloney," he told me.

Another key to his outlook is his enthusiasm for cricket (he is proud of his son's prowess in the game, too). In his garden there are three sets of practice nets, in which he sets a good example to members of many British cricket clubs. I must add straight away that he is himself a member of the Derbyshire County Cricket Club Committee and a playing member of the G.I.C. and Friars Cricket Clubs,

He is an enthusiastic traveller. He delights in taking his family in the car to Europe, wandering from place to place, not always with any preconceived schedule, and taking a gourmet's interest in the food and drink of the country. He likes fast cars and is a reliable fast driver though he confesses that on holiday he is no believer in rushing about and covering as many miles per day as his Mark IX Jaguar will take him.

The industry recognized his worth and ability by making him president of the Traders Road Transport Association. He was appointed a member of the East Midland division of the T.R.T.A. in 1949 and in 1954 became vice-chairman of the divisional committee. Three years later he was its chairman. As long ago as 1949 he became a member of the national council as an East Midland representative. In 1957 he was elected one of the Association's vice-chairmen.

The key to success? Modestly he describes it as hard work first and foremost, analytical ability (to enable a man to get at the fundamentals) and courage to act on the results of analysis. So success is reached in the business sphere by energetic, courageous and informed action. H.C.

T.G.W.U. Campaign Against Excessive Hours

FROM OUR INDUSTRIAL CORRESPONDENT

A NEW campaign against road haulage contractors and their drivers who work excessive hours and do not observe the rest period regulations is foreshadowed at the Biennial Delegate Conference of the Transport and General Workers' Union.

The conference, which opens at Brighton next Monday, will have before it a series of resolutions to ease the work of lorry drivers.

One expresses "serious alarm" at the way Section 73 of the Road Traffic Act, 1960, is being violated throughout the country "by a majority of operators" and urges that traffic enforcement officers should have increased facilities.

Another wants heavier penalties imposed on persons violating this section. One of the penalties should be disqualification of the driver's licence "to deter these drivers from exceeding the legal hours to be worked."

A third wants an amendment of the section to reduce the maximum working day to 10 hours and to extend the rest period to 13 hours in any period of 24 hours.

Categories for Drivers

Another branch urges that drivers should be graded into three categories.

 The long-distance driver to be paid as a skilled man and recognized as such.
 The driver who does not have any

nights away from home.

3. The driver who does only local

3. The driver who does only loca deliveries.

Further, it demands that there should be registration for drivers, similar to that operating for dockers.

Under this proposal, drivers should be paid according to their category, instead of the existing practice of payment according to the weight carried by the type of vehicle.

There is also an attack on the Minister of Transport for allowing the practice of "trip bonus" payment for drivers to continue.

This "pernicious system," the resolution states, has been the biggest contributory factor encouraging drivers to drive at excessive speeds for long hours with little or no rest at all. Gross overloading, with its consequent strains and stresses, made the vehicle a potential danger to other road users, it is stated.

Encouraging False Sheets

While this method of payment was allowed to remain legal, drivers would be encouraged to falsify log sheets and violate every law contained in the Road Traffic Acts.

Other resolutions call for compensatory payments to make up for the raising of the speed limit from 20 to 30 m.p.h. and tor all drivers of commercial vehicles of over 3 tons unladen weight to have to hold again an H.G.V. licence and to be registered by the Ministry of Labour as skilled drivers of heavy goods vehicles.

On the bus side, the conference will be asked to express its "serious concern" at the continued crisis in London Transport, resulting in higher fares, more waiting, fewer buses for the travelling public and worsening conditions for bus workers.

Other resolutions ask for an annual review of wage settlements; for an examination of the inevitability of the contraction of the bus passenger industry; for the elimination of all high-cost uneconomic services and for the recognition that national rates and conditions are minimum rates without prejudice to prosperous firms which are already paying higher rates.

There are several demands for a Government inquiry into the whole passenger transport industry and one for a single unified negotiating body to deal with wages and conditions for London Transport, municipal and private company undertakings.

Smiths of Maddiston Buy Two Concerns

THE share capital of two haulage concerns has been acquired by J. and A. Smith of Maddiston, Ltd. A total of 48 vehicles have been taken over. The first concern is McCann and McKay, Glasgow, who operate approximately 40 vehicles on A licence, a number of which are vans and which are mostly concerned with work in central Scotland.

The second company is J. Dennison and Co., Ltd., of Falkirk, who operate eight vehicles between Scotland and England. This company formed the Scottish section of Scraggs, of Cheadle, Lancs, who intend to carry on their business as usual with their original fleet from their Midland base.

The staffs of both of the concerns will be retained, it has been stated.

WOLVERHAMPTON JUST OUT OF RED

A LTHOUGH there was a gross surplus of £72,401 for the year ended March 31, last, on the workings of Wolverhampton Corporation transport department, loan charges reduced it to a net surplus of £4,722. In 1959 there was a £140,701 gross and a £47,395 net surplus

Wolverhampton, which is to buy no more trolleybuses, had a gross profit of £103,211 (£147,816 in 1959) on those vehicles, and a deficit of £30,810 (£7,115) on motorbuses. This was because the trolleybuses are on the shorter, more profitable town routes.

Crosville Object to Air Transport Application

TRANSPORT licensing history was made last week when Crosville Motor Services became the first road operators to appear before the recently formed Air Transport Licensing Boad to object to an application by Starways, Ltd., to vary their licence, between Hawarden, Liverool and Glasgow, by including an optional stop at Blackpool; increasing frequency; and reducing the tariff between Liverpool and Glasgow. Silver City Airlines and the B.T.C. also objected.

Mr. J. A. Wilson, for Starways, said that due to the present low frequency, the airline could not offer what they regarded as a "genuine service." If they were granted 12 return flights weekly, they would be able to offer at least two return flights daily, six days a week, and get generally more traffic.

They wished to reduce the single fare from £3 18s, to £3 15s, to bring it in line with the London fare. At present there was quite a disparity in the charges made to passengers.

Questioned by Mr. R. Oswald, for Crosville and the B.T.C., Mr. Wilson said that the main intention was to provide a

Mr. Leech told our reporter that he believed this was the first occasion on which a bus company had opposed an application before the Board. The application had been brought to Crosville's attention by the B.T.C., and the company had decided to object "to bring to the notice of the Board that other people could be affected and applications should not be granted automatically."

businessman's service between Blackpool and Glasgow. There was a reasonable demand, but not sufficient to warrant the steady operation of one aircraft on the route.

Asked what evidence he had to show that the needs of the public at present were not being met, Mr. Wilson replied; "There is no air service at all."

He agreed that the fare between Liverpool and Blackpool was proposed at £1 return, and between Glasgow and Blackpool at £5 return.

Mr. Oswald: "I am sure you will accept that the railway first-class return fare between Glasgow and Blackpool is £6 10s., and you are undercutting that by 30s.?"

Mr. Wilson replied: "We could put it another way by saying that the railways are overcharging." He pointed out that they were already operating the service at a fare of £6 return.

As is the normal procedure, the Board reserved their decision, which will be announced later.

High Court Hears Merchandise Appeal

"Tribunal Wrongly Exercised Its Discretion"

THE hearing of the appeal against the Transport Tribunal's decision in the Merchandise Transport case started in the Court of Appeal last Thursday. The case was continuing at the time of going to press and was to be immediately followed by the hearing of the Arnold Transport (Rochester), Ltd., appeal.

followed by the hearing of the Arnold Transport (Rochester), Ltd., appeal. For the appellants in the Merchandise case, Mr. E. S. Fay, Q.C., said the appeal raised questions of great practical importance to the transport industry. It was not too much to say that the Tribunal's decision, as it stood, would alter the character of a large proportion of the country's haulage industry.

The British Transport Commission and 60 road hauliers were appealing from a decision of the Tribunal granting an application by Merchandise Transport, Ltd., of Tottenham, to vary their A licence by adding 119 vans. Of this number 112 were held on C licence by Harris Lebus, Ltd., furniture manufacturers at Tottenham and Reading, the parent company of Merchandise Transport.

The Tribunal had reversed a decision of the Metropolitan Licensing Authority, and had allowed the company's appeal subject to remitting the case to the Licensing Authority to determine the precise number of additional vehicles to be granted.

Hauliers' Case

Mr. Fay, for the B.T.C., said he also appeared for a large number of road hauliers who were competitors of Merchandise Transport and who appeared as objectors before the Tribunal and the Licensing Authority. They provided transport in the same district or between the same places as Merchandise Transport.

Counsel said that the question of A-licence jurisdiction was a matter in the discretion of the Licensing Authority which had to be exercised in the public interest.

"The core of my case is that the Tribunal, when reversing the decision of the Licensing Authority, wrongly exercised its discretion," said Mr. Fay.

What was really happening was a switch-over of 112 vehicles on C licence from Harris Lebus to Merchandise Transport on A licence, with an additional seven vehicles on A licence. The vehicles would carry furniture on their outward journey but the appellants were concerned with the effect on their own traffic to London if 119 Luton vans were let loose throughout the country with the right to carry general goods back to London. There was danger that the traffic they now carried might be taken from them by Merchandise Transport.

L.A.'s Decision

Counsel read the decision of the Licensing Authority and said that the finding was that the desire of Harris Lebus to employ Merchandise Transport to carry their goods was "less than genuine." and was subordinate to the wish of Harris Lebus, and its subsidiaries, to use

A-licensed vehicles in order substantially to increase the capacity they could offer for the carriage of return loads. It was not in the public interest that the application should be granted.

Merchandise Transport had stated that the principal object of their application was to form a single integrated fleet of A-licensed vehicles primarily to serve the expensive transport needs of Harris Lebus

Lord Justice Devlin said there seemed to be an air of great unreality about the whole matter. It simply made nonsense of the rule that A-licence carriers should not carry their own goods. It was just a matter of forming a subsidiary company and then applying to transfer a fleet of C-licence vehicles to A licence.

Mr. Fay: "That is really the heart of this case. It is bad enough having 119 vehicles running empty on the roads and available to carry return loads. But look at all the other manufacturers and retailers and other commercial organizations who have large fleets of C vehicles.

"The London Brick Company has at least 400 vehicles under C licence, traveling outwards with loads of bricks to all parts of the country and returning empty because they are C-licensed. If this Transport Tribunal decision stands there is nothing to stop this company from getting return loads on their empty brick lorries."

IN THE MONEY

Herbert John Moore, aged 47, told Bridgwater magistrates last week that he earned between £40 and £60 a week as a self-employed lorry driver. He was fined £60 for dangerous driving. A police witness said Moore overtook another vehicle at 50 miles an hour. "I thought it was quite legal," he said.

Counsel added that he agreed it was not a necessary ingredient of C-licence running that there should be empty return running. He did not deny that one of the facets of public interest was the desirability of avoiding empty running of vehicles. However, in the present case, it was simply a transfer of A-licence work from other transport hauliers to the fleet operated by Merchandise Transport.

Unregulated Competition

Mr. Fay then referred to the Road and Rail Traffic Act, 1933, and said it might be thought that one of the evils the statute sought to repress was that of unregulated competition between road hauliers. The principal object of Section 11 of the Act was to protect professional hauliers against the depredations of uneconomic competition.

In counsel's submission, the Transport Tribunal had based their decision on their previous findings in other cases and had omitted altogether the facts of the present

During further submissions by Mr. Fay, Lord Justice Sellers asked: "When you go into this trade as a haulier don't you expect competition?"

Counsel said hauliers expected the licensing system to give them sufficient security to provide a full service to the public, to keep their vehicles in order, and to provide enough for a reasonable living. Often they expected to make up on the swings what they lost on the roundabouts.

(Continued on page 791)

Rural Services: Waiting for Jack

From Our Political Correspondent

NAMES are being steadily added to Mr. Rupert Speir's Commons motion asking for urgent action to ensure that adequate country bus services are maintained—and Tory Mr. Speir is now receiving the support of Labour and Liberal MPs.

But, even as the support for the motion grew, it became clear that any Government steps to implement the recommendations of the Report are a long way off.

Mr. Ernest Marples, the Minister of
Transport, was asked in the Commons
last week what action he proposed to
take, but all he could add to the
unpromising statement he had given three
weeks earlier was: "I am now considering
the comments on the Report, which have
been received from the associations which
I have consulted."

Don't Scrap Derv Records Yet

IT will be some time before the need to keep dery records is scrapped. The Hydrocarbon Oils (Marking of Gas Oil) Regulations, 1961, came into effect last Saturday, thus making it obligatory to mark with a dye gas oil not intended for use in a road vehicle—it bears duty of only 2d. a gallon. But dery records must still be kept.

A Customs and Excise spokesman told *The Commercial Motor* this week: "It will be a fair while yet before they can be withdrawn." He explained that before dery records could be scrapped, machinery had to be set up to enforce the new regulations, and this would probably take some time.



After 33 years' service with Halifax Passenger Transport Department, Mr. Harold Bell, chief inspector since 1955, is to retire shortly.

Mr. Archie Pressley, manager of the machine tool section of the machinery department of Thos. W. Ward, Ltd., has retired after over 51 years' service with the company.

Mr. J. G. Osborne has been appointed North London divisional manager for the Firestone Tyre and Rubber Co., Ltd., in succession to Mr. E. C. S. Barton who has retired.

Mr. George H. Spear has been appointed manager of the new Telehoist London factory at Sunbeam Road, Chase Road, N.W.10. Three new representatives of the Telehoist sales organization are Mr. Harold Johnson, Mr. John Jenkins and Mr. V. Bettany.

Bernard Wardle (Everflex), Ltd., p.v.c.-coated fabrics manufacturers, of Caernaryon, North Wales, have appointed two new directors to their board: Mr. W. Howson, chief engineer, and Mr. J. W. Sutherland, who will be responsible for new developments and production.

Mr. P. A. Maclaren, export manager (Eastern) of Leyland Motors, Ltd., has been appointed general manager of Karkhaneh Leyland (France), Ltd. Mr. J. A. R. Jackson, who was personal assistant to the general sales and service manager of Leyland Motors has been appointed export manager (Eastern), and Mr. C. W. B. Walker has been appointed personal assistant to the general sales and service manager.

Mr. Arthur Ruston has been appointed director for production for the Good-Tyre and Rubber Co. (Great Britain), Ltd., Mr. Ruston, who until recently was plant manager at Goodyear-Luxembourg, succeeds Mr. John Q. Shaul, and will be responsible for the overall production at the firm's two factories at Wolverhampton and Glasgow. Mr. Shaul, who has been director for production for Goodyear-Great Britain for the past three years, is returning to the U.S.A.

Men in the News

Mr. Arthur Ruston (left), Goodyear's new director for production, and Mr. J. G. Osborne, Firestone's new North London divisional manager.

Mr. C. F. Kearton, deputy chairman, has resigned from the board of Pinchin Johnson and Associates, Ltd., at his own request. The following appointments have been made: Mr. W. T. Branscombe is appointed deputy chairman, having relinquished his position as managing director; Mr. W. Gerard Daroux is appointed managing director; Mr. G. F. Ingham Clark is appointed commercial director; and Mr. W. S. Kerr is appointed a director of the company and will assume the position of sales director.

Mr. Joseph Lincoln Spedding Steel has been appointed chairman of Triplex Holdings, Ltd., in succession to Sir Graham Cunningham. Mr. Steel joined the Triplex Holdings Board in May last year, being at the same time appointed deputy chairman.

He was a member of the Board of Imperial Chemical Industries, Ltd., from 1945 to 1960, and prior to that had been successively director, managing director and chairman of I.C.I.'s Alkali Division. Mr. Steel has been chairman of the British National Committee of the International Chamber of Commerce and chairman of the Overseas Trade Policy Committee of the Federation of British Industries for over 10 years.

Forthcoming **Events**

September 17.—Lorry Driver of the Year Contest. National Final, Fort Dunlop.

September 21-October 1.-Frankfurt Motor Show. "Planning for Traffic " Convention, Central October 5.-Institution

October 5-15,-Paris Motor Show, (Cars only.) October 17-18,-Road Haulage Association Conference, Brighton.

October 18-28. - Earls Court Motor Show.

October 24-27.-Royal Dairy Show, Olympia.

October 28-November 8.-Turin Motor Show. October 31.—British Electrical and Allied Manufacturers' Association Dinner, Grosvenor House, Park Lane, London.

November 10-18. Scottish Show, Kelvin Hall,

Glasgow November 13-16.—National Maintenance Con-ference and Exhibition, Central Hall, Westminster.

April 36-May 5.—F.I.S.I.T.A. Ninth International Automobile Technical Congress, Church House, Westminster.

May 15-17. Public Transport Association Con-ference, Harrogate.

May 29-June 1.- Institute of Transport Congress. September 21-29.—Commercial Motor Show, Earls Court. October 17-27.—Earls Court Motor Show



Mr. Peter Wadham, branch manager, Wadhams, Ltd., Petersfield, has been appointed technical director on the board of Wadham (Holdings), Ltd. Mr. A. E. Osgood becomes branch manager at Petersfield

Mr. Harold W. Stoneman has been appointed manager of the Producing Department of Esso Petroleum Co., Ltd., which will undertake the exploration for gas and oil in specified areas in the counties of Hampshire, Surrey, Sussex and Kent. This follows the granting of licences to the company for this purpose by the Ministry of Power, Mr. Stoneman has been with the Esso group of companies for 24 years.

Mr. A. Bolton has been re-elected chairman of the Passenger Vehicle Operators Association. The three vicechairmen are: Mr. W. Dodds, Mr. J. T. Steel, and Mr. E. A. Lainson. The treasurer is Mr. F. Broomfield. The area chairmen are: Mr. James Walker (East chairmen are: Mr. James Walker (East Midland); Mr. Dodds (Scotland); Mr. S. G. Bellamy (Western); Mr. T. Hoyle (Yorkshire); Mr. H. Allen (North Western); Mr. A. E. Brewer (South Wales); Mr. H. W. B. Richards (West Midland); and Mr. C. C. Hutchinson (London and Home Counties) (London and Home Counties).

Obituary

We regret to announce the death of Mr. George Beckett, general manager of Darwen Corporation Transport Department. He was 60. Mr. Beckett started his career as a bus conductor in Oldham just after the first World War, and had been general manager at Darwen for 16

FEWER PASSENGERS

MR. N. MORTON, general manager of Sunderland Corporation transport undertaking, in his annual report, says there are no signs of a halt in the decline in the number of passengers using the corporation buses. Last year, he states, the number of passengers fell by 34 million to nearly 82 million, while the number of bus miles covered fell by 309,000 to 6,567,000. Receipts, however. increased by nearly £12,000 to £896.217. and the trading profit was £96.890 against £101,940 the previous year.



This was the casualty facing Mr. G. Rogers. proprietor of Unity Garage, Leicester, when his round-theclock breakdown service was called out recently. The load consisted of five tree trunks, the heaviest, of which weighed 7-tons. A Morris-Commercial 4 x 4, an Albion 6x6, and a 7-ton platform lgrry used by Unity team to winch the timber to a replacement unit.

Merchandise Judge Wants to Know About Return Running in Haulage

(Continued from page 789)

MR. FAY referred to evidence given before the Licensing Authority by 27 objectors, and said it showed there were regular services to all large centres of trade in the United Kingdom; existing hauliers could carry all the traffic that was offering. The evidence went further and showed that facilities were already surplus to requirements, to the extent of showing vehicles to be idle or only partially loaded on many days.

The Transport Tribunal held that the evidence did not come near to proving what the objectors sought to prove. In counsel's submission, the reached no real finding at all as to what the evidence established.

Special Standards

Lord Justice Sellers said the Tribunal might be employing some special standards to reach their decision. supposed one could never get perfection when every vehicle went out full and returned full. The Tribunal might have said: "We have had evidence from objectors, but it is almost inevitable in the trade that vehicles return light or only half full.

He added: "The Tribunal have the information and this Court has not."

Counsel said his case was quite simply that transport facilities were now adequate for requirements or in some cases surplus.

Lord Justice Sellers: "I am not too sure that is the case. There are a good many factors such as the method by which return loads are collected. Some people may be more diligent in trying to get a return load than others. I don't know how these work."

Mr. Fay said the Tribunal had to decide the case on the evidence and if they were going to make use of judicial knowledge and practice in the industry they had a duty to say what facts they took into consideration.

Lord Justice Sellers said there was no evidence by any customers of hauliers and when looking at the public interest it seemed an important matter.

Counsel replied there had never been a practice of calling customers to give evidence. There was no subpoena in traffic courts and it was very difficult to get a customer to give evidence.

Merchandise Transport had by one stroke been put in the same position as a tremendous organization such as the British Transport Commission. They had become national haulage carriers by reason of being a subsidiary of their parent company.

There could be no objection to outward traffic by the 119 vans. The reality of the case lay in the return traffic, which was the outward traffic of many of the appellants, Dealing with evidence for British Railways, Mr. Fay said it was relevant that they were losing traffic and being subsidized to the tune of over £1m. a week.

Public Interest

"I submit there is a public interest in safeguarding rail traffic, derivid both from the public financial interest in the railway, and also in maintaining a railway system as a benefit to the trading public. Retaining traffic on rail also assists in preventing overcrowding on the roads."

Mr. Fay said one of his main complaints was that the Tribunal had neglected their important public function of regulating transport as a whole and had "put on blinkers" and looked on a very narrow field. The reality of the case was not simply an application to earry traffic outwards from London, but an application to carry anybody's traffic anywhere on the return journey

There was the possibility of flooding the market with vehicles by people who were C-licence operators, to the detriment of professional hauliers.

The hearing continued

MR. ALLEN AGAIN

THE chairman and managing director of Atkinson Lorries (Holdings), Ltd., Mr. W. G. Allen, has been re-elected chairman of the British Vehicle Manufacturers

Applicant's Rates Were Cheaper

ONE vehicle out of a total of three applied for was granted to Edwards Transport (Lydbrook), Ltd., of Lydbrook (Glos), by the Western Licensing Authority, Mr. S. W. Nelson, at Bristol on Monday

The applicant submitted that they needed the vehicles to carry a new type of cement brick which was being produced by Shakemantle Quarries, Ltd. This was a new industry in the Forest of Dean, and with the installation of new equipment, they expected to produce 14 million bricks a month.

Mr. M. Gordan, chairman of the quarry company, told the Authority that they had found the applicant's rates were cheaper than other hauliers.

Mr. R. Read, one of 15 objectors, said that he could not compete with the low rates mentioned by the applicants. Asked what his rates were, he replied: " Nothing less than that indicated by 'The Commercial Motor Tables of Operating

£9,250 Award Against Allison's

DAMAGES of £9,250 were awarded D against the Dundee haulage com-pany, Allison's Transport (Contracts), Ltd., in the Court of Session last week, They had been sued for £20,000 by Coco the Clown, the world-famous circus performer. He claimed that as a result of a collision between a van and trailer which he was driving on the Perth-Dundee road on August 16, 1959, and a lorry belonging to Allison's, he is no longer able to give the type of performance he gave before the accident. He maintained he now suffers from certain disabilities which are permanent and which have made him unable to perform his tumbling acts in the ring.

But for the accident he would probably have continued to work in the

circus for another 10 years.

Liability was admitted by Allison's. but they contested the action on the grounds that the sum claimed was excessive. They believed Coco had intended to retire from professional life before long.

Coco, whose real name is Nicolai Polakovs, and who is 60, lives at 1 Rosebery Avenue, South Shore, Blackpool,

HAULIERS THREATEN MARKET

BAKEWELL market may be boycotted D by haulage contractors who bring stock to the market. They have said that they will boycott the market from July 17, unless something is done in the meantime to remedy their grievances. The contractors complain that they are sometimes kept waiting four or five hours before their vehicles are washed, and that they cannot find a parking place for

There are about 20 contractors taking part, owning between them 50 vehicles.

Transport Tribunal Decisions

Western L.A. Criticized "Hiring Was Not Phenomenal"

AN appeal against a grant by the Western Licensing Authority of an additional 9-ton artic. to J. Smith (Bicknor), Ltd., was allowed by the Transport Tribunal in London last week

The appeal was made by four South Wales hauliers, I. Cresswell (Ebbw Vale). Ltd., E. B. Rees, Ltd., F. A. Parfitt (Transport), Ltd., and N. M. Watkins.

Sir Hubert Hull, the chairman, said that in the early part of 1960, Smith's made an application, which was the subject of a public inquiry in May. As a result they were granted A licences for three large vehicles.

There was no appeal on that decision, said Sir Hubert, and there was no urgency on Smith's part, because the third of the three vehicles did not come on to the licence until December last year. reasons which were not explored at the inquiry at the end of October, the respondents, though they had this large vehicle in hand, thought they had better apply for some more."

Referring to the figures, Sir Hubert Hull said the Licensing Authority was

wrong when he spoke of "striking increases" in the firm's earnings. "What should have struck him was not the increase, because there wasn't one, but the decrease," said Sir Hubert.

The Licensing Authority referred to "a phenomenal degree" of hiring. "In fact, hiring represents 7.2 per cent. of the total earnings. In a business of this character we don't think that that hiring percentage is phenomenal in any degree.

Sir Hubert said that after the three vehicles had been granted in May and one did not come on to the licence until December, Smith's were proved to be in a position of having a vehicle whose earning capacity was at least £5,000 a year, and it was not proved there would be demands upon them to the extent of more than £2,000.

As matters stood at the end of 1960, Smith's were fully equipped with all the transport they required to meet any work they had been called upon to do, and any increase for which there was reasonable proof. Therefore, an additional vehicle was not necessary.

Mortons of Coventry Appeal Refused

A N appeal by Mortons Transport (Coventry), Ltd., against a decision of the West Midland Licensing Authority who had refused their application for 12 articulated vehicles and trailers on B licence and had granted three vehicles instead, was refused by the Transport

Tribunal last week.
Giving the Tribunal's decision, the president, Sir Hubert Hull, said the key document produced in the case was one showing what was left untransported at the end of each day at the Massey-Ferguson and Standard-Triumph plants. Once one appreciates how many vehicles

are required to reduce that backlog to the sort of figure no one can complain of, three vehicles are ample to reduce it. certainly within a measurable time, to an amount which no firm can consider to be excessive." he said.

> Decision Reserved in Lloyd's Appeal

ONCLUDING his case for Lloyd's Transport and Warehousing (Manchester). Ltd., who appealed against a decision of the North Western Licensing Authority, refusing them B licences for seven lorries, Mr. J. R. C. Samuel-Gibbon told the Transport Tribunal last week that the Licensing Authority was quite wrong to say they should have nothing.

"It would be reasonable to allow the vehicles, in place of those which were demonstrated up to the hilt as being off the road," he said. "The fact that we are not asking for general authority was proof of our bona fides.

The Tribunal reserved its decision.

Unpainted Routemaster Experiment

NPAINTED aluminium-alloy exterior panels are the distinguishing features of RM 664-an L.T.E. Routemaster to be placed in experimental service shortly. All the panels are unpainted, and to give the bus an overall "silver" appearance plastics components are painted silver to match the alloy panels. The bus will be compared with normal painted RMs as regards wear, appearance and maintenance costs, and will be allocated to Highgate garage, operating on route 276 except on Saturdays, when it will run on route

THREE-COURSE ATLANTEANS

THREE-COURSE meals may soon be served on "Gav Hostess" Atlantean coaches operated by Ribble Motor Services. Ltd., and its associated companies. This was revealed on Wednesday by Mr. R. P. Beddow, chairman of Ribble, at the annual meeting of the company

Experiments had been carried out for some time, he said, which had proved



This Redwing for-ward-control fire appliance is based on a Land-Rover 109-in,-wheelbase chassis, the conver-sion having been carried out by Carmichael and Sons (Worcester), Ltd. It seats four person-nel, has a 140-gal. water tank and a 380g.p.m. pump. Bodywork is in light alloy and glass fibre, and the appliance is petrol-engined.

His Intentions Were Quite Clear

A N appeal by the British Transport Commission against the grant of an additional 31-ton vehicle to B. H. King of Kempston, Bedford-granted by the Eastern Licensing Authority last November-was dismissed by the Transport Tribunal last week.

Giving the Tribunal's decision, the president, Sir Hubert Hull, said a point had been made for the Commission that the declared normal use of the vehicle was not the purpose for which it was intended. They agreed with this but considered that Mr. King had made his intentions quite clear at the public inquiry.

The Tribunal considered that the figures did show that Mr. King's fleet was occupied and they were taking on a

fairly considerable portion of increased traffic.

The B.T.C. had said that the facilities provided by British Railways were adequate for the traffic, but " we do not think it was shown that the facilities they were providing, or were in a position to provide, were as suitable for the purposes of the only customer in this case as those which Mr. King said he would provide," said Sir Hubert.

The Tribunal, however, did not think that sufficient general evidence had been provided by the applicants. But they did think that carriage in a refrigerated van from the point of loading to the markets would be better than the broken journey by road or rail to London, and then by normal train service

Labour Sidesteps Nationalization

From our Political Correspondent

PLAIN, straightforward nationalization of road transport is dropped from the Labour Party's new home policy document, "Signposts for the Sixties." Instead, the national conference in October will be asked to approve a policy which envisages the unhampered expansion of publicly owned transport— obviously to the detriment of the privately owned sector.

"The scope for public enterprise should be extended by removing the anomalous restrictions which at present prevent public corporations from undertaking many useful and profitable developments," says the document.

"Britain will never have an economic transport industry until the publicly owned transport authority is free to extend its road services wherever it can usefully do so."

It adds: "Where competition creates not efficiency but chaos in a key sector of the economy, there too an expansion of public ownership may be necessary to put things right."

The point was amplified by Mr. Harold Wilson when the document was published last week. "We are not contemplating going back to the sort of idea of taking over from private owners of small lorries. and paying large sums in compensation," he said. "We are thinking much more in terms of expanding the existing nationalized sector.

Five for Nottingham

FIVE people have been short-listed for the post of deputy general manager, Nottingham transport department, in place of Mr. H. G. Morley who recently retired. The interviews will be held on July 24. The short list is: Mr. Clifford Fielden, commercial manager, Nottingham; Mr. L. C. Harrison, general manager, West Bridgford; Mr. W. R. Holland, deputy general manager, Morecambe and Heysham; Mr. Donald Machin, chief engineer, Nottingham; and Mr. John Proctor, deputy general manager. Rochdale.

Weekly to Poland

BARTON TRANSPORT, of Chilwell, near Nottingham, were granted a licence to run a weekly express service from Nottingham to Warsaw by the East Midland Traffic Commissioners last week.

Mr. R. Seely Whitby, for Barton's, said the service would begin in April. 1962, and would operate for seven months every year until October.

Fare for the full journey would be £28 return and £15 10s. single. The children's fare would be £21 and £12.

FIATA CONGRESS FOR VIENNA

A CONGRESS of the international transport contractors' and forwarding agents' organization (F.I.A.T.A.) is to be held in Vienna from October 9 to 14.

Was Application Made In Wrong Area?

BEFORE reserving his decision on an application by Michael and Partners, Ltd., Chesterfield, at Sheffield last week, the Yorkshire Licensing Authority, Major F. S. Eastwood, expressed some doubt as to whether or not the case should have been heard in that traffic area. The application was based principally on the carriage of coal from collieries in the Midlands and South Wales to the Reading area. It had

first been heard in April, 1961, when Michael and Partners asked for four B vehicles of 19 tons to carry deep-mined coal, pig iron, oxide, road and building materials within 85 miles of their base at Chesterfield.

The application had been adjourned on the last occasion to enable the figures to be broken down. This had been done, but Major Eastwood pointed out that they should have been submitted prior to the hearing to enable the other parties to study them in advance.

The case was opposed by four private road hauliers from the Derby and Nottingham areas, who all told of tippers licensed to carry coal which were not fully utilized especially in the summer

Mr. H. Bonsall, an operator from Ripley, said in evidence that, following the first hearing, he had approached Michael and Partners for work, as they also acted as a clearing house.

He had been asked to deliver some coal to Manchester, and duly sent a vehicle along the following morning. The driver had waited until late afternoon before the unit was loaded, by which time it was too late to set out that day. so the coal was delivered the next

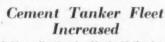
morning. No remuneration was received for the lost day's work and Mr. Bonsall said he could not afford to operate on this basis.

Objections had been received from British Railways and their representative produced schedules showing the availability of their coal wagons. During April and May this year there had been a surplus of facilities.

In submission, Mr. J. Webb, for the railways, said that the applicants wanted a base at Chesterfield to deal with traffic from the Midlands and South Wales, A base was not needed in Yorkshire and the application should have been made in the Midlands. Two supporting witnesses had wanted coal carried to Reading, but all evidence had been rebutted by the objectors.

Mr. N. A. Orman, for the applicants, contended that Chesterfield was not far from the East Midlands coalfields and they also wanted to carry traffic to Birmingham. Witnesses had said that transport was not available when they needed it. People needed the quickest possible service today, and should not have to wait for vehicles.

Maj. Eastwood said he agreed with the final remarks of Mr. Webb, but would consider all the evidence and give a decision later.



AN application by Hugh Clelland and Sons, Chryston, to increase their cement tanker fleet by five vehicles was partially granted by the Scottish Licensing Authority, Mr. W. F. Quin, last week at Glasgow. Mr. H. Clelland, managing director, gave evidence that his fleet was the only one of its type in Scotland, making hiring impossible. Large-scale construction, including two new steelworks, involved handling of 150 tons per day.

Granting four articulated vehicles, Mr. Quin said he would limit their use largely within the southern division of the Scottish traffic area.

EDINBURGH FARES APPROVED

THE application by Edinburgh Corporation for permission to increase fares was approved in full by the Scottish Traffic Commissioners.

Mr. W. M. Little, general manager, said that unless fares were raised the depot would be faced with a deficit of £194.000 for the year to the end of May next year. If the application was granted, in a full working year they would have about £15,000 to spare.



Cockers (Southport), Ltd., co-operated with Ormskirk Motors, Ltd. in fitting sliding door gear to an integral van based on a Bedford TK 4-ton chassis. It will be seen that the door has a separate panel let into its lower edge at the front corner, and this panel fills the gap hetween the bottom of the door and the top of the step when the door is closed, retracting level with the bottom edge as the door slides back. The trap behind the door gives access to the engine.

Injuries Survey Report



An artist's impression of what was advocated.

RECOMMENDATIONS for improvements in vehicle design to lessen the risk of injuries or to minimize their severity when road accidents occur are made in the first report of the Road Injuries Research Group, published on Tuesday. The establishment of the Research Group at the Birmingham Accident Hospital was announced by the Duke of Edinburgh, as President of the Automobile Association, following the annual meeting of the A.A. in May, 1960.

The A.A, has set aside £30,000 to finance the group over a period of seven years. In their report, which covers 10 months work, the directors of the Research Group, Mr. William Gissane, Ch.M., F.R.C.S., Hon. F.R.A.C.S., and Dr. John P. Bull, M.D., draw attention to features of vehicle design which according to their analysis, are the most common causes of injuries in road

With regard to heavy vehicles, the report makes these points:-

The field of vision of the driver is often restricted so that he cannot see children who may be immediately in front when the lorry moves off from rest. The high clearance of the sides of many heavy lorries and trucks allows persons ejected from cars, motor and pedal cycles, to be run over by the twin rear wheels.

The long overhang of many heavy vehicles and trucks is a particular hazard to cars and motorcycles in night collisions, often when the heavy truck is stationary and ill-lighted at the roadside. In these circumstances cars and motorcycles have often been jammed under the overhang and the occupants and riders of these vehicles received very serious facial, neck and chest injuries.

The accompanying illustration shows how a heavy vehicle might look if its design were as advocated by the group.

I.R.T.E. Vehicle Exhaust Study

MEMBERS of the Institute of Road Transport Engineers who have been conducting independent investigations into the problem of excessive smoke emission, are being invited to send information, opinion or comment to the Institute's secretary for forwarding to the recently formed Vehicle Exhaust Study Group.

This group of the LR.T.E. is carrying out its own investigations, with special reference to engine and component design, fuel constituents, engine maintenance and other contributing factors. It is studying also apparatus capable of providing warning of fumes or smoke emission.

Argentina To Make Perkins Engines

AN agreement has been signed by F. Perkins, Ltd., for Perkins three-, four- and six-cylindered diesel engines to be manufactured under licence by Fast S.A. Commercial e Industrial, Buenos Aires, a company forming part of a well-known industrial group founded by the Amat family.

The project has the full approval of the Argentine Government who welcome it as an important contribution to its plans to increase the country's industrial capacity and utilize national resources.

Mr. M. I. Prichard, managing director of the Perkins Group, said recently: "Perkins have now decided to manufacture in the Argentine because concessions aimed at encouraging the manufacture of engines provided under an Argentine Government decree last year created a favourable climate for operation and also because import restrictions are making the export of engines to Argentina increasingly difficult."

The local content of the engines will be built up over a four-year period and production of the six-cylindered engine will start later this year, using existing factory premises in Buenos Aires initially. Production is expected to reach an annual figure of about 12,000 units

GLACIER GET SOVIET CONTRACT

As a result of close contact during the last year or so between officials and technicians of the Glacier Metal Co., Ltd., Wembley, Middlesex, and Russian automotive manufacturers, reticular-tin aluminium bearing material has been standardized for two different Soviet heavy-vehicle engines and also for two private-car engines. In 1959, 2,000 sets of such bearings were ordered by the U.S.S.R. trade delegation for tests in the Soviet Union.

It is planned to make the bearings in Russia in plant designed and built by Glacier which will be shipped out to the U.S.S.R. within the next two years. The value of the contract, which was signed last month between Glacier and Stanko-import, is over £400.000.

Out-of-peak-hour Distribution Problems

THE "social problem" posed if commercial vehicles make collections and deliveries at night is discussed by Mr. H. R. Featherstone, national secretary of the Traders' Road Transport Association, in the T.R.T.A. Bulletin.

The suggestion has been made that trade and industry should help to alleviate traffic problems by carrying out distribution out of peak hours, particularly at night, says Mr. Featherstone. The Association has been advocating such action whenever it was practicable for several years past.

But, he adds, the scope for readjustment is necessarily limited, particularly so far as night deliveries are concerned.

"Deliveries require not only drivers but staff at both dispatch and receipt points. Will the staff be available and, admittedly a secondary issue, can their night employment, say in small shops, be an economic proposition?

"The social problem does not end there. Staffs on night duty must get to and from work and that presupposes adequate public transport. They have to eat, which involves night catering facilities.

"And so the various aspects accumulate and the full ramifications of what is essentially a social problem begin to be seen."

Mr. Featherstone, saying that a very considerable adjustment in the British mode of life would be necessary to achieve anything substantial in the way of night deliveries, adds that the failure to make any material impression on the London peak-hour traffic problem by means of staggering hours highlighted the same sort of difficulties.

Bus Companies Line Up for Fares Increases

Mr. Thom Attacks Use of Cars No Twopennies in Town Centres

CRANTING Eastbourne Corporation's application to increase fares last Friday, Mr. H. J. Thom, the chairman of the South East Traffic Commissioners, made public his strong views on the use of private cars. He urged the Corporation to deter their use in the town centre by making it difficult and expensive for them to be parked—"The extended use of the motor car cannot go on much more," he said.

Sitting at Eastbourne, the Commissioners heard the first of a series of fares applications from Southern operators, made as a result of the latest wages award. Commencing with Eastbourne, within the next few weeks the Commissioners will hear applications from Bournemouth Corporation, Southern Vectis, Aldershot and District, Hants and Dorset and Wilts and Dorset.

Eastbourne Corporation's application its second within a year-was presented by Mr. J. J. P. Boyle, who told the Commissioners that since last year. "every single member of the undertaking, from the manager to the cleaners, had had a pay rise.

The increases, if granted, would produce £14,000 which would result in a "profit" of £679 this year. Only one third of the total fare stages would be affected, and the proposals did not include the sea front services, which were increased last year. The Corporation contended that the increases were extremely reasonable and in the public interest.

Mr. Thom, in his decision, congratulated the Corporation on its "kind and generous treatment" of the travelling public in Eastbourne.

for Bristol

THE Western Traffic Commissioners sitting at Bristol last week granted an application for the revision of fares by the Bristol Omnibus Co., Ltd.

The decision means the end of the 2d. fare in Bristol city services and instead the minimum will be 21d, for 0.8 of a mile Other fares will be on a fare-bymileage basis.

On the company's country services the minimum fare will be 3d. for a mile or

MORE ON MOTORWAY EXPRESSES MIDLAND RED'S method of levying a "surcharge" on all passengers using their motorway expresses was rejected by the East and West Midland Traffic Commissioners last week. In a deferred decision the Commissioners said that they would increase the level of all single and return fares charged by Midland Red, but pointed out that in doing so they were concerned primarily with the need for increased revenue for the company. Their decision was not to be taken as indicating that they considered a higher fare ought to be charged when an express service was routed via

Token Resistance to W. National Bid

ONLY token opposition was offered by 14 Devon, Somerset and Dorset local authorities, to an application, heard before the Western Traffic Commissioners at Bristol last week, by the Western National Omnibus Co., Ltd., and the Southern National Omnibus Co., Ltd., to raise fares to meet the recent wages award.

Mr. H. L. Ellis, director and general manager of both companies, said the additional cost to the companies would be £155,000. Operations during 1960 brought about a net profit of £173,949. If the proposed fares were sanctioned, estimated profit would be £198,600.

The new proposals provided for the retention of the 2d. minimum fare, but only a proportion of the lower fares would be increased. One could still take a ride in a £6,000 bus for the price of a box of matches, said Mr. Ellis.

Announcing the Commissioners' decision, the chairman, Mr. S. W. Nelson, said: "We think on the whole it is the fairest way of spreading these increased costs over the travelling public-they must pay for their transport. If people would calmly compare bus fares with other public charges, they would realize how reasonable they were."

£129,000 Yield

were also sanctioned in Increases respect of the services of Hants and Dorset and Wilts and Dorset Motor Services. In the case of the former these provide for graduated increases on a fare-by-mileage basis principally in the range of 2d. to 1s.; 84.5% of fares being

Cost of the new wage increases would be £150,290, and the proposed new fares would vield £129,000. The company's chief accountant said they did not anticipate any passenger resistance this time and had allowed nothing for it.

New 12-seater conversions of the Thames 15-cwt. van were announced by Kenex Coachwork, Ltd., on Monday. They are the Kenebrake as illustrated, which sells for £630 in standard Ford colours, or £650 in Kenex colours, and the Kenebrake Yeoman, which costs £5 less in each case.



Success For United Auto and Cumberland

CUMBERLAND MOTOR SERVICES, LTD., Whitehaven were granted increases in fares by the Northern Traffic Commissioners at Carlisle last week which will affect all major towns in West Cumberland, as well as Carlisle, Wigton and Keswick

For the company, Mr. J. L. R. Croft. said that an application was made a year ago to vary fare tables because of a wage award. There had been another increase in wages which meant an additional £37,000 in a full year. With other increases in costs, including the graduated State pension scheme, the increased cost for a full year would be £43,480 of which £22,110 had to be borne by the company this year.

In a full year the fares increase would bring in £33.700 extra. Mr. Croft said that remarkable economies had been carried out by the company during the past 12 years. The number of buses had been cut down, but seating capacity had been increased as had the mileage covered by the vehicles operated by the company.

The company proposed, in the next two years, to substitute 70-seater buses for 60-seaters.

The Commissioners also granted an application for fares increases to United Automobile Services, Ltd., Darlington, which were described by the Com-missioner as "not unreasonable." They will be introduced in the middle of July. The recent wage award had added £205,000 to the company's operating costs in a full year.

London Busmen About Face on Colour Bar Issue

From our Industrial Correspondent

L ONDON busmen changed their minds last week on the question of introducing a colour bar and saved their union and the London Transport Executive from an embarrassing position.

At a meeting last month of the Central Road Services Committee of the Transport and General Workers' Union, which was attended by delegates from 80 inner London bus garages, a resolution opposing the "influx of immigrants to this country and their employment in London Transport" was narrowly carried by two votes.

Since the terms of the resolution were against union policy, it was excluded from the official minutes of the conference. But the matter was raised again last week.

This time, Mr. Wally Hurford, who represented Upton Park garage, moved a resolution declaring against any form of discrimination on the grounds of religion, race or sex. There was a heated debate before the resolution was decisively carried by 65 votes to 14 with two abstentions.

Only three delegates spoke against and they disclaimed colour prejudice. But they did say that they thought coloured people who had been living "on peanuts" thought they were very well off on a conductor's £11 6s. a week. They. therefore, acted as a brake on the campaign for higher wages.

Altogether London Transport employ some 1,200 coloured men and women out of a total labour force of 37,000.

Urban Road Planning Steering Group

As already announced, Mr. Colin Buchanan has been appointed to the Ministry of Transport to undertake a study of the developing problems of roads and traffic in urban areas and their

a Steering Group of which Sir Geoffrey Crowther will be the chairman. It will be the function of this Group to keep itself informed of the way in which Mr. Buchanan's work is proceeding, to give him general advice as to the broad lines which he should pursue and to give the Minister their advice on Mr. Buchanan's conclusions.

The other members of the Steering Group will be: Sir William Holford, Mr. O. A. Kerensky, Mr. C. H. Pollard, Councillor T. D. Smith and Mr. Henry

Exports Improve

PRODUCTION of commercial vehicles in the first four months of this year totalled 162,274, compared with 149,330 for a similar period in 1960. There was also an improvement in exports, 66,446 vehicles being sent overseas between January and April this year, compared with 52,003 in the corresponding period of last year.

The output of commercial vehicles in April at 37,634 was 9,726 less than the previous monthly figure and the lowest since last November. However, the weekly production rate continued to run at a high level in April at 9,409 units a week and compares favourably with the 8,807 weekly average for the whole of

Details are given in the accompanying tables

influence on the urban environment.

To assist Mr. Buchanan in this work. the Minister of Transport is appointing

PRODUCTION-APRIL, 1961

Туре	April	JanApr			
Goods vehicles, tractors and special types Under 15 cwt. 15 cwt3 tons 3-6 tons Over 6 tons	20,055 5,911 4,592 5,757	81,795 27,679 21,523 25,063			
Total	36,315	156,060			
Passenger vehicles Motorbuses, single-deck double-deck Trolleybuses	1,117 202	5,363 851			
Total	1,319	6,214			
Grand Total	37,634	162,274			
Weekly average	9,409	9,546			

NEW COMMERCIAL VEHICLE EXPORTS-APRIL, 1961

. Value £
10 40,304,09
3,606,65 18 652,37
1,000,10

Orders and Deliveries

BOLTON REGENTS DELIVERED: Bolton Corporation Transport Department have taken delivery of six A.E.C. Regent Mark V double-decker buses. Metropolitan-Cammell-Weymann 72-seater bodies with front entrances and power-operated doors are fitted.

RIBBLESDALE ORDER RELIANCES: Six 36-ft.-long A.E.C. Reliance coaches have been ordered by Ribblesdale Coachways, Ltd. The bodies will be 8 ft. 2½ in wide and have 49 seats.

MYSORE ORDERS COMETS: The Mysore Government Road Transport Undertaking have ordered 30 Leyland Comet long-wheelbase bus chassis from Ashok Leyland, Ltd., of Madras.

PIT RESCUE SCAMMELL: A Scammell Mountaineer four-wheel drive tractor has been added to three other Scammells used with trailers to carry emergency rescue equipment by the East Midlands Division of the National Coal Board.

New Transport Companies

Bentley Haulage, Ltd. Cap. £1,500. Dirs.: D. C. Roberts, 4 Victoria Road, Bentley, Doncaster; K. W. Newbury, 170 Bentley Road, Doncaster; K. W. Newbury, 170 Bentley Road, Doncaster; Forks, Sec.: D. C. Roberts, Reg. office: 170 Bentley Road, Doncaster.

Plantstead Transport Co., Ltd. Cap. £160. Dirs.: J. G. Dearsley, 76 Genesta Road, Plumstead, London, S.E.18; E. W. J. Dearsley, 24 The Common, Woolwich, London, S.E.18. Sec.: E. W. J. Dearsley, 24 The Common, Woolwich, London, S.E.18. Sec.: E. W. J. Dearsley, 26 Condon, W.I. S. F. Parker and Sons, Ltd. Cap. £2,000. Subs.:

Common, Woolwich, London, S.E.18. Sec.: E. W. J. Dearsley. Reg. office: 61 Portland Place. London, W.I.

5. E. Parker and Sons, Ltd. Cap. £2,000. Subs.: 5, H. Lucas and F. A. Dean, 6 Surrey Street, London, W.C.2. Sec.: S. H. Lucas. Reg. office: 6 Surrey Street, London, W.C.2.

H. T. Farlam, Ltd. Cap. £1,500. Dirs.: H. T. Farlam and P. S. Gibbin, 38 Queens Road, Fairfield, Buxton, Derbys.

Rosedale Haulage, Ltd. Cap. £100. Dirs.: G. P. B. Davey, G. Davey and C. S. Davey, 4 Bracks Road, Bishop Auckland, Co. Durham, Sec.: C. S. Davey. Reg. office: 4 Bracks Road, Bishop Auckland, Co. Durham, C. W. Budd (1961), Ltd. Cap. £100. Dirs.: S. Hill and E. G. Hill, 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: 3 Featley Road, London, S.W.9. Sec.: S. Hill. Reg. office: G. S. Beachroft Road, Wallheath, Staffs. Dir.: A. G. Bird. Sec.: K. H. Hind. Reg. office: Hilton Garage, Cannock Road, Featherstone, Nr. Wolverhampton, Trans-European Coach Lines, Ltd. Cap. £100. Subs.: J. H. Wright, 70 Windermere Road, London, N.10; G. H. Eames, 294 St. Margarets Road, Twickenham, Middx.

MINISTER'S "NO" TO "SAFETY-SERVICE" LEVY

THE Minister of Transport does not think much of the idea of a special levy on all road users, to pay for a "safety-service." Replying to a question in the Commons last week, he said that the existing arrangements for rescue and communications seemed to be, in general, adequate.

Any necessary extension of the patrol system could be better achieved by the further development of mobile police patrols.

MR. MARPLES AT FOLKESTONE

MR. ERNEST MARPLES, the Minister of Transport, paid a private visit to the Folkestone works of Martin Walter, Ltd., recently, accompanied by Mrs. Marples.

Both Mr. and Mrs. Marples are keen caravanners and they showed particular interest in the Dormobile caravans in construction on Bedford; Ford Thames. Austin, Land-Rover, etc.

HIGGS AND HILL CHOOSE AUSTIN 7 TONNERS

Engineering contractors, Higgs & Hill Ltd., build roads and runways, factories and flats, power stations and bridges. In their Austin fleet are many 7 ton trucks and tippers. Chosen for:

MASSIVE STRENGTH: extra strong steel frame braced by 5 cross-members. Exceptionally robust front axle. Tough semi-elliptic springs. High-efficiency steering. Powerful servo-assisted brakes.

POWER PLUS ECONOMY: 5.1 litre O.H.V. 6 cylinder B.M.C. diesel engine. 105 b.h.p. at 2,600 r.p.m. Precision built direct injection equipment ensures maximum fuel economy.

men buy **AUSTIN**



benefits for your drivers. Ask us for dctails.



DRIVER COMFORT: Super luxury all steel safety cab. Uninterrupted visibility through deep wrapround windscreen. Foam rubber seating, all-ways adjustable. Sprung steering wheel.

7 TON CHOICE: 120", 150" or 160" wheelbase. Trucks with platform or dropside bodies, tippers with 6 cu. yd. Edbro or Telehoist hydraulic tipping bodies. Chassis/cab/scuttle units also available. NEW LOW PRICE: from £1,162.

STOP PRESS I atest addition to Britain's widest 5 cwt.-7 ton range is the new Austin prime mover for 18 ton gross train weight.

BIG MEN INVEST IN AUSTIN

The Austin Motor Company Ltd, Longbridge, Birmingham Overseas Business—Austin Motor Export Corporation Limited, Birmingham, England London Showroom: 41-46 Picadilly, London, W. I.

Which John Bull tyre do YOU choose?



JOHN BULL

Great BRITISH tyres-with a great BRITISH name!

JOHN BULL RUBBER CO. LTD., LEICESTER

Formal International Transport Agreement

THE convention on contracts for the international carriage of goods by road (CMR) came into force on Sunday between Austria, France, Italy, the Netherlands and Yugoslavia. This convention, which was drafted by the inland transport committee of the Economic Commission for Europe, was opened for signature at Geneva on May 19, 1956. It is the road equivalent of the Berne convention on the transport of goods by rail (CIM), which has been in operation for rail transport for close on 70 years.

Although the CMR will be in force as between only five countries in the first instance, it will apply not only to transport between two contracting states but also to any transport originating in or consigned to a contracting state. Unlike the CIM, the CMR is confined to stipulations of private international law.

Common Market Transport -Further Delay

FURTHER postponement of any A concrete decision was the result of a meeting in Strasbourg, France, this week of the Transport Ministers of the six Common Market countries to discuss inter-member transport policy, writes a special correspondent. The Ministers-of France, Italy, Federal Germany and the Benelux countries-were considering a memorandum presented to them by the Common Market Commission on the matter of transport co-ordination within the area. The only resolution passed was to allow the memorandum to be worked on by officials of the six national Ministries, in co-operation with the three Inner Six economic organizations (Common Market, European Coal and Steel Community and Euratom) over the current summer and early autumn, the Ministerial Council to meet for further consultations in late October.

Although only comments of a general nature were made at the Strasbourg meeting, the Ministers are said by observers to have received with reserve Commission suggestions putting a stop to independent national transport decisions of member Governments. The Commission recommendation to the six Governments to introduce the withdrawal of inter-member transport discrimination by obligatory transport documentation, freight rates and conditions of carriage by July 1, 1961, must thus be seen as of symbolic nature only.

It can have little serious effect on any operators at the present time.

Free Operation Proposal

Earlier this month the Common Market Commission passed on to the advisory transport committee of the Inner Six trade bloc recommendations by which transport operators of any Common Market country would be able to operate absolutely freely throughout the area by the end of 1967. This would mean that operations within one member country and not crossing any land border would be possible by a transport firm based in any other country.

Under the Commission's plan, this would be the end of a phased programme aimed initially at the permitting of internal operations in a country other than that of a given operator's base inasfar as such operations connected up with a border-crossing service, this to be brought into operation by December 31.

M.P.s Support Channel Tunnel Plan

I MMEDIATE and weighty support was given last week to a House of Commons move in favour of a Channel More than 70 M.P.s., of all parties, gave their backing to a motion urging an immediate conference between the British and French Governments, as a preliminary step to a final decision on the cross-Channel link.

The motion is in the name of Mr. William Teeling (Tory, Brighton Pavilion), who is joint chairman of the Channel Tunnel Parliamentary Group. Lord Amulree, a group vice-chairman, has put down a similar motion in the Lords, but some M.P.s consider that his has wider, if perhaps unintentional, implications than mere support for a tunnel between Britain and France.

If this country were to enter the Common Market a Channel Tunnel

would play a vital part in the integration process, and so the motion is not likely to be favoured by those Members who are fighting to keep Britain from joining forces with the "Six."

The motion stresses the need for major improvements in the transport facilities passengers, goods and vehicles between Britain and France.

BARTON'S BUY NEW PREMISES

BARTON TRANSPORT, LTD., of Chilwell, Notts, have bought factory and warehouse premises in Mount Street, Nottingham, opposite one of the city's largest bus stations.

The property, costing £14,500, has a total site area of 500 square yards and floor space of 10,196 sq. ft. Mr. Kenneth Barton said: "We hope to use the new premises as booking office and bus park."

Mansfield Highways Committee have accepted the quotation of H. A. Saunders, Ltd., of Worcester, for the supply of a Bristol Duplex industrial tractor with shovel equipment, at a price

Hornsey Corporation are recommended to accept the tender of Crimble of Staines, for the supply of a Bray 450 TF Ford 6D 80 b.h.p. tractor shovel for the sum of £3,942, subject to a part-exchange allowance of £500.

allowance of £500.

Norwich Health Committee recommend approval to the purchase of two Pakomatic 50-cu_yd, refuse collecting vehicles with hygienic loading shutters from Shelvoke and Drewry. Etd., for the sum of £4.565 each (plus delivery charges, and less an allowance of £75 for three vehicles to be replaced).

Wandsworth Boroush Council are recommended to place an order with Kingston Hill Motor Works, Ltd., for the sumply of two Paladin-type refuse vehicles with Eagle bodies on Bedford chassis, for the sum of £7,626; and with Glover, Webb and Liversidge, Ltd., of London, S.E.I. for the supply of two barrier-type refuse collection vehicles, complete with Scammell tractors, at an estimated cost of £6,000.

of £6,000.

Stourbridge Corporation are recommended to accept the tender of Wollaston Garage, Ltd., of Wollaston, Stourbridge, amounting to £934, for the supply of a Morris Commercial diesel-engined 3-ton lorry, with tipping body, the price includes an allowance for an old lorry; the tender of Lycetts Garage, Ltd., of Stourbridge, for the supply of a Karrier Blenheim retuse collection vehicle for the sum of £2,998; and the tender of Dennis Bros., Ltd., of Guildford, amounting to £4,150, for the sumply of a Dennis dustless refuse collection vehicle.

Glasgow Transport Committee are recommended to approve the placing of orders with A.E.C. (Sales), Ltd., for the supply of 75 double-deck bus chassis, for the sum of £193.500; and with Leyland Motors, Ltd., for the supply of 75 double-deck bus chassis for the sum of £201.875; required in connection with the tram conversion programme.

chassis for the sum of £201,075, required m con-nection with the tram conversion programme. Swindon Parks, Markets and Cemeteries Com-mittee have accepted the quotation of the Victoria Garage (Swindon), Ltd., amounting to £377, for the supply of a Morris 5-cwt, van: the tender of Skurrays, Ltd., in the sum of £401. For the supply and delivery of a Bedford 10-cwt, van. including an allowance for a vehicle to be replaced; and the quotation of Mr. W. C. Akers, of Moredon, amounting to £492, for the supply of a Bedford 15-cwt, van.

quotation of Mr. W. C. AKETS, or minerosis, amounting to £492, for the supply of a Bedford 15-cwt. van.

Wallasey Works Committee have accepted the tender of Thomas Green and Son, Ltd., for the supply of a Greens. "Griffin '125-cwt, diesel-powered vibratory roller, complete with water tank and sprinkers, for the sum of £545: the tender of Joseph Thompson and Co. (Liverpool), Ltd., for the supply of a Bristol AFS/150/PD. diesel-engined air compressor for the sum of £976; the tender of North Wales Agricultural Engineers, Ltd., for the supply of a Ferguson Industrial "35" diesel tractor for the sum of £702 (after allowance of £10 for an old petrol tractor); the tender of Dennis Bros., Ltd., for the supply of one guilty emptying equipment and power-operated street watering and washing equipment for the sum of £3.025; and the tender of Holland Motors, of Southport, for the sum of £3.025; and the tender of Holland Motors, of Southport, for the sum of £3.025 and the tender of Holland Motors, of Southport, for the sum of £3.025 (including an allowance of £30 for an old Ford tipping vehicle, for the sum of £2.029 (including an allowance of £30 for an old Ford tipping vehicle in part-exchange).

Da lington Corporation have accepted the tender Minories Garages, Ltd., of Darlington, amounting £5,046, for the supply of three refuse collection higher

Ripon Highways Committee have requested the ity Engineer to obtain quotations for the supply two tractors, suitable for the replacement of two old tractors.

iwo old tractors.

Milford Haven U.D.C. have placed an order with F. Rees (Garages). Ltd., for the supply of a new Austin 3-ton forward-control diesel-engined tipping lorry for the sum of £980.

Watford Highways Committee recommend acceptance of the quotation of Norman Reeves (Motors). Ltd., of Watford, amounting to £1.124, for the supply of a 23 ton tipping lorry.

Stoke Newington Highways and Town Planning Committee have accepted the quotation of George Cohen Sons and Co., Ltd., amounting to £1.182, for the supply of a new portable compressor and tools for same.

Guildford Corporation Works Committee recommend that the Borough Surveyor be authorized to purchase a new Dennis cesspool and gully emptier, with a water attachment, at a cost of £3.150.

Tynemouth Water Committee have accepted the tenders of Gray Bros., of North Shields, for the supply of a Bedford lorry, for the sum of £1.278; a Bedford var. Academic CAL, for the sum of £1.515; and a Bedford var. CAL, for the sum of £515; and a Bedford var. CAS, for the sum of £496. The Cleansing and Transport Committee have accepted the tender of Furrows of Shrewsbury for the supply of four Ford Thames 3-ton lorries, equipped for the operation of snow ploughs, at a total net price of £3,325. Tynemouth Water Committee have accepted the

Smaller More

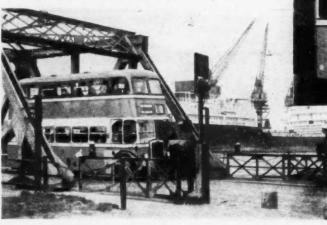


Mr. G. A. Cherry, general manager of the Birkenhead Transport Department.



A Guy of the 228-strong Birkenheud fleet collects workers from the Cammell Laird shippard.





(Above) A Birkenhead Corporation Ley-land in the washing machine. Maintenance equipment is modern and the outlook progressive. (Left) Several of the Corporation's routes pass over the Duke Street bridge on the dock estate.

ARGE-CAPACITY buses may be the answer to problems in the larger cities where traffic densities are high, and where frequencies can be widened without appreciable inconvenience to passengers, in that they effect a saving in vehicles. They are not, however, at this stage considered to be the answer for the transport department of a municipality like Birkenhead, although the whole position in this town is being very carefully watched.

Local advantages are flat terrain and a densely populated

traffic area in the heart of Merseyside, with many diverse industries scattered over the routes. The area is also within easy reach of seaside and beauty spots in the Wirral peninsula. These facts have been fully exploited over the years by the Birkenhead Transport Department, whose present general manager is Mr. George Arnold Cherry, who has been at Birkenhead since 1942.

Birkenhead's new omnibuses are orthodox rear-entrance, front engine, 64-seaters of Leyland make, because such

Buses Are Economical

-say Birkenhead

Fast Scheduled Speeds and a Main Town Terminus Restricted for Space are Factors Behind the Fleet Policy of the Financially Stable Passenger Operations in Birkenhead

by A Special Correspondent



An impressive line-up in the Corporation's main maintenance shop

smaller units are considered more economical in service. It has been found that large-capacity double-dcck vehicles have certain limitations in satisfying the needs of Birkenhead, where there are very fast scheduled speeds and a main town terminus which is restricted for space, and for ensuring that all fares are collected.

Fare Collection Easier

At present 61-seater vehicles with five standing passengers are being operated. It was decided not to take advantage of the regulation permitting eight standing passengers, but to concentrate on fare collection, which was made easier by the reduced number of standing passengers. Ten or a dozen more passengers, says Mr. Cherry, plus a little more care required for manœuvring larger vehicles, would make requests for more running time difficult to refuse. An extra vehicle on any particular service, because of increased running time, would quickly dissipate any advantage from larger capacity. Increase of terminal and depot space would be required and dense loading on short stages could lead to more uncollected fares.

While seemingly ideal for inter-town services, where there is ample time for fare collection and extra seating capacity could avoid a need for duplication, in many cases adoption of larger vehicles might result in reduced frequencies by virtue of increased carrying capacity. And reduced frequencies are not the way to increase traffic.

By virtue of Parliamentary powers granted under Local Acts, Birkenhead Corporation Transport run services well out into the Wirral, crossing the peninsula from Mersey to Dee in a south-westerly direction; north-west to Leasowe facing the Irish Sea; and south-east on the Chester road to Eastham in the Borough of Bebington.

Joint services are operated with Wallasey Corporation, on a straight mileage basis, between Birkenhead, New Brighton and Leasowe. Although there is no joint running with the major provider of express services in the area, Crosville Motor Services, Ltd., Birkenhead and Crosville, operate side by side in the Wirral under working agreements in force since 1924, which have worked well over the years, despite occasional disagreements. Generally long-distance operation is left to the company. For instance, when a new housing estate was built at Mill Park, Eastham, the Corporation instituted a 24-minute stage carriage service on which was superimposed an hourly Crosville express service.

Industry in the South

The most intense industrialization is to the south of Birkenhead and includes concerns such as Cammell Laird, Unilever and Cadbury's, whilst the commercial life of Liverpool draws many of its workers from the population of the Wirral.

Like many others who started with tramway under-

takings, Birkenhead Transport Department's offices and workshops grew up piecemeal, but in 1958 a new garage was opened at Laird Street which can take 150 buses, and adjacent workshops will be completed by the end of 1961, at a total cost of approximately £140,000. The whole of this project has been financed from revenue.

The undertaking's buses



The main terminus by the ferry at Woodside, where the service dates back to 1150. There is at present a 15-minute daily service.

run in the region of 71 million miles annually and last year carried 66 million passengers for a revenue of nearly £1,000,000. Peak year was 1950, with 78 million passengers. Afterwards there was a gradual recession until 1960, when there was a slight increase over the previous year in the number of passengers carried.

With only three fare increases during the past 10 years, and none since 1957, Birkenhead can be regarded as one of the more fortunate undertakings. Indeed, over the years more than £700,000 has been given to rate relief.

Fares are tapered on a mileage basis and workers' concessionary tickets were abandoned some four or five years ago. With practically full employment in the area, bus crews are a problem. While there are usually recruits available, the difficulty is keeping them when a five-day week and no shifts are offered by many industries.

The undertaking has 228 buses, primarily of Leyland make, plus a number of Guy and Daimler. All are double-

deckers except four.

Mr. Cherry, who was president of the Municipal Passenger Transport Association in 1953/54, and has been a member of the National Joint Industrial Council since 1948, was six years general manager of Rochdale before taking over at Birkenhead. He has also had experience at Hull, Rotherham, and with the Yorkshire Traction Co., Ltd., after serving an engineering apprenticeship in Sheffield.

He has found that modern buses, with all-metal bodies, do not require preventive maintenance on the scale of 20 years ago. For instance, the overhaul life of Leyland oil engines has been greatly extended. In 1951 they were given a "C" dock at 30,000 miles. Now engines run on to 40,000 miles before overhaul. Detergent oils and improved engine design are mainly responsible, says Mr. Cherry. The average mileage between overhauls is steadily increasing, a compliment to manufacturers' design and materials.

Machine Ticket Operation

Office methods at Birkenhead are continually examined and improved. In 1950/51 machine ticket operation was introduced, and a little later the traffic receipts and wages departments merged, machines being installed for detailed figure work. New methods of waybill calculation and extraction of traffic receipts were introduced, and a system of recording and calculating time for weekly wage staffs reduced clerical work by 50 per cent. and ensured greater accuracy. Streamlined recording of receipts and payments now occupy a single line in a specially designed ledger.

In February, 1953, the Transport Department took over the administration of the Birkenhead Ferries Undertaking. which for nearly 30 years, since the opening of the Mersey

Tunnel, has suffered annual deficits.

The early history of Woodside Ferry dates back to 1150, but a steamer service was introduced in 1821, and in 1835 the Woodside Ferry Co., Ltd., was formed. In 1837 the Birkenhead and Chester Railway Co. took over the lease and in 1842 sold it to the Birkenhead Commissioners.

Traffic increased so rapidly that Parliamentary consent was obtained to erect floating roadways. These, and the introduction of new and more comfortable ferries, proved a great success, and after the transfer to the Corporation in 1877, the ferry service was of inestimable value to the borough, both as a means of river transport and in relief to the rates.

The opening of the Mersey Tunnel in 1934 caused all goods and vehicular traffic to be withdrawn, but by agreement between Liverpool and Birkenhead Corporations, the ferry losses were made a direct charge on tunnel revenues so long as they are toll-bearing, a protection which has proved extremely valuable. Night ferry operation ceased in 1956 and the present 15-minute daily service, supplemented at peak and holiday periods, is maintained by three modern vessels.

Birkenhead has a claim to fame as the place where the first street tramcar to run on rails in Europe was introduced, by the American inventor, Mr. George Train, on August 30, 1860. The route was from the ferry to Birkenhead and some 5,000 people were carried the first day.

A number of private tramway companies were formed during the next few years, but they got into difficulties and the lines were purchased by the Corporation and leases granted. The first electric trams ran on February 4, 1901, and the first double-decker on December 30, 1903.

Relief of Rates

A notable feature of the tramway undertaking was its contribution of £85,240 to the relief of rates between 1901-

In 1913 the Corporation had applied for Parliamentary powers to run buses within the borough and on certain routes outside, with the consent of local authorities. Although the Bill was passed in 1914, these powers were not exercised until 1919, the first bus route being from Rock Ferry Pier to Birkenhead Park Station.

By 1939 a modern fleet of 182 buses was in operation; it suffered heavy losses during the Liverpool blitz, 140 buses

being damaged to a greater or lesser extent.

Working expenses per bus mile have always been among the lowest in the country and, apart from a small increase after the First World War, the fares structure was substantially the same for 30 years, until increased costs and heavy taxation made a fare increase unavoidable in 1950.

One of the present-day problems in Birkenhead is that of motorists converging on the Mersey Tunnel approaches across the main bus routes, causing chaos amongst peakhour traffic. The Corporation have agreed in principle to an elaborate and extensive road programme, including a Mersey road bridge and/or a second tunnel from Mersey Park to Upper Parliament Street, Liverpool, joining the dock areas on either side of the river.

Only a slight measure of staggering of working hours, to ease peak problems, has been achieved, and, unlike neighbouring Liverpool, there has been no co-operation from the education authority. In this connection the Unilever Group proved very helpful in staggering both works and office hours.

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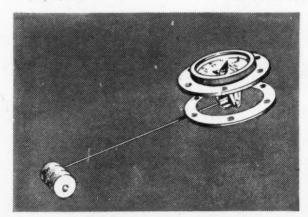
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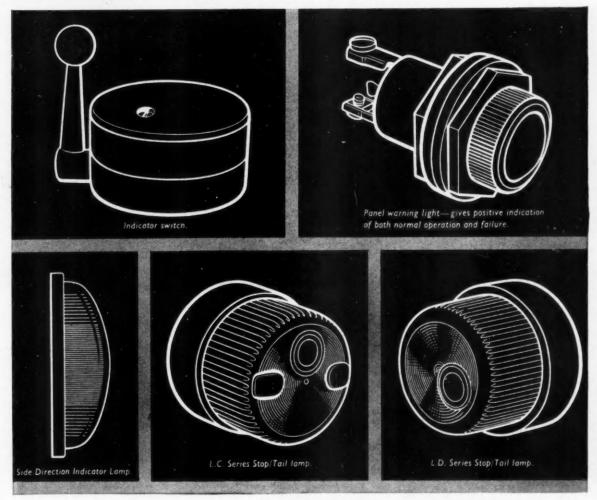
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Normal Control TJ 4 × 2

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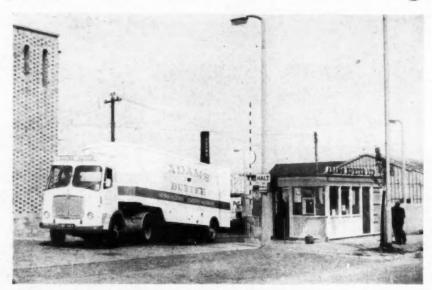


Note the extrathick tread! Up to 40% more nonskid specially toughened tread rubber. No wonder the Super Road Lug gives se much longer, more dependable service!

GOODFYEAR

THE WORLD OVER, MORE TONS ARE HAULED ON GOODYEAR TYRES THAN ON ANY OTHER MAKE

Refrigerated Van Trailers Act as Mobile Storage Units



Adams Butter, Ltd.,
of Leek, Employ
Maximum-load
Trailers With Automatic Refrigeration
System for Both
Transport and
Temporary Storage
of Butter

(Above) Latest addition to the Adams Butter fleet, an A.E.C. Mandator, leaves the works. The whole outfit is attractively finished in Adams livery. (Right) This Standard 5 cwt. van is used for local calls on retail shops.

Since an article was published in the January 13, 1956, issue of *The Commercial Motor* on the transport operations of Britain's largest butter blender and distributor, Adams Butter, Ltd., Leek, Staffs, the company have developed a simple diesel-driven refrigerating system with automatic control and applied it to 40 insulated vans mounted on maximum-load, single-axle or four-in-line articulated trailers with a payload capacity of 12½ tons. After a bulk consignment of butter has been loaded at one of the ports during the summer months, the refrigerating system may operate for several days with the trailer standing in the depot or at the Leek factory.

On a typical delivery to a wholesaler's warehouse it is continually in use for the entire run, and sometimes throughout the 24 hours.

Additional refrigeration of the load is often a prerequisite of the blending process, and, if immediate unloading of the bulk butter is not possible, the vehicle may be left on a parking site with the plant running for a relatively long period, to save the expense of transferring the load to a cold store. In both cases the trailer acts as a mobile storage unit.

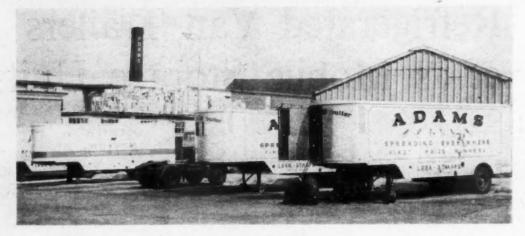
The first Adams-designed refrigerating plant to be installed in a trailer as standard equipment has given reliable service for over three years, and the highly favourable record of the system substantiates the claim that it affords increased efficiency at a reduced cost. In contrast to the carriage of, say, frozen foods, refrigeration can be applied to bulk consignments of butter without limit in the time available.

It is considered virtually impossible to reduce the





Loading butter on to a trailer. A customer's own small van is seen loading in the background.



Loaded semi-trailers seen in the depot yard.

temperature of the load to such an extent that its condition is adversely affected, and in practice the lowest obtainable temperature is advantageous. Eliminating automatic control reduces the cost of the equipment and of maintenance, and provides a far more suitable and reliable system, without sacrificing efficiency.

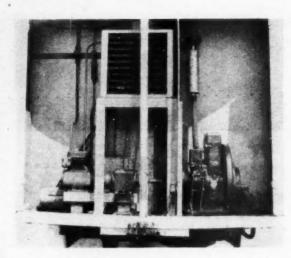
Maximum summer temperature of the butter when loaded at a port is normally about 60 degrees F., and before unloading at the processing plant the temperature is reduced to 40 to 45 degrees F., the normal minimum being 42 degrees F. Although the optimum temperature is 40 degrees F. the butter is acceptable at temperatures down to 33 degrees F. Continued refrigeration after delivery to the plant obviates the necessity to transfer to the cold room before the butter is processed, and greatly reduces handling costs as well as the static storage space required.

50 per cent. Saving on Cost

Fitted in a separate compartment at the front of the trailer, the Adams refrigerating plant is of the evaporator-plate type, and its application has afforded a saving of more than 50 per cent. on first cost. Moreover, employing a diesel engine as the motive unit has reduced running costs by over two-thirds. The Halls compressor of the refrigerating plant is driven by a Lister single-cylinder air-cooled diesel developing 3½ b.h.p., which runs on tax-free gas oil and consumes about half as much fuel as a comparable petrol engine. Power is transmitted through

a three-way gearbox from which the condenser and air-circulation fans are also driven. The motive unit is equipped with an electric starter and a flexible lead, which is plugged into a battery connection on the tractor or can be connected to a servicing trolley if the trailer is standing in the Leek depot.

After extensive experimental work with various forms of air circulation, and tests of evaporator plates in a number of positions, a system was produced which gives virtually uniform refrigeration of the entire load. Air is directed to ducting in the roof with four distribution outlets and is drawn back into the system from an inlet at the base of the front bulkhead. The evaporator plates are fitted to the sides n20



(Above) The refrigerator unit as employed in the butter transporter trailers. (Below) A trunk unit brings in bulk butter from Grimsby. The trailer is dropped in the yard before the return run to Grimsby with another trailer and driver.



of the van close to the roof, and the distribution of cool air by the fan is thereby aided by natural convection.

A particular problem originally associated with the use of a diesel engine was to reduce noise to an acceptable level, operation of the plant throughout the night in vehicle parks near residential areas being sometimes necessary. An up-to-date type of intake silencer is fitted to the diesel engine and air is drawn from beneath the vehicle, which is facilitated by the absence of flooring. The refrigerating compartment is lined with acoustic material, and these measures have offset the noise disadvantage of the diesel.

Under construction for experimental application, a blower-coil type of refrigeration equipment should offer space and weight advantages compared with the plant in use. The equipment will be fitted with an automatic defrosting unit, which will employ exhaust gas as the heating medium. This will also be driven by a Lister diesel engine.

The van bodies are insulated with Onazote, the thickness of the material in the floor and roof being 3 in., whilst a 2-in layer is applied to the sides and rear door. Bonallack aluminium bodies are employed, timber linings and inserts being fitted at strategic points to reduce heat transfer to a minimum. The four-in-line trailers are of B.T.C. manufacture, whilst the single-axle trailers are Scammell vehicles, both types being equipped with fifth-wheel couplings.

Employing couplings of this type was a necessity, because of the location of the refrigerating system at the front of the vehicle, and it is significant that, operationally, the higher loading of the tractor's driving axle has been of great benefit to vehicles negotiating steep gradients in wintry weather. Effective axle loading has been increased from 5 tons to nearly 9 tons.

Multiple Shelf Sections

As an aid to refrigerating efficiency, one of the bodies has been experimentally equipped with multiple shelf sections for the carriage of boxed butter, as distinct from the transport of butter in barrels. Made in the workshops, each shelf comprises back-to-back extruded light-alloy panels of top-hat section, and slides in runners fitted to the sides of the body, the total extra weight of the shelves being less than 5 cwt. The boxes are stacked three high on the floor of the vehicle and also on the shelves, and this allows air to circulate over the entire surface of the cases, apart from the bottom surfaces of those stacked on the floor. In addition to aiding air circulation, this practice obviates crushing of the lower boxes by a heavy imposed load when packeted butter is being delivered. Easy removal of the shelves allows the vehicle to be employed for normal work at short notice.

Technicians of the company are particularly interested in the potential of demountable bodies and have investigated the possible advantages of employing one of the established systems. None of the types available would, however, cater for the company's particular requirements, and a system has been planned with these in mind.

The first outfit to be employed will be based on a Dodge 8-ton rigid chassis, which will be used in conjunction with three bodies. These will be loaded and unloaded by means of a four-post static "expanding-type" installation equipped with hydraulic jacking units. Bodies will be handled in the depot after mounting on a works-modified trailer by a shunting tractor, which will also be used for other work. Because old vehicles will be used, the cost of the shunting tractor and trailers will be negligible, and the trailer will occupy less space than the rigid lorry.

Looking further into the future, it is envisaged that two demountable 12-ft, bodies will be fitted to a maximum-load eight-wheeler for long-distance trunking runs, and that each body will be transferred to a 5-ton chassis for local



A Mandslay, used for shunting in the depot, tows a semi-trailer through the washer building.

delivery in the destination area. Refrigeration equipment of the design evolved for the 12½-ton trailers will be fitted to the bodies.

The 21 tractive units of the Leek fleet include 11 A.E.C. Mercurys and four A.E.C. Mandators, the remainder comprising three Leylands, one Albion and two Bedfords. Additional units are employed at the London and Grimsby docks.

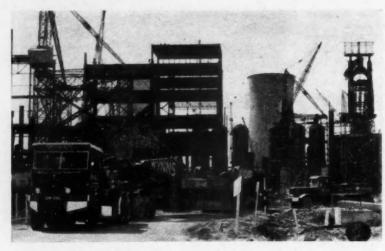
Apart from a recently purchased A.E.C. Mammoth Major eight-wheeled platform lorry, rigid vehicles comprise Bedford 7-tonners and Bedfords of 3-7-ton capacity, all of which are equipped with insulated light-alloy van bodies. Smaller vehicles include Standard 5-cwt. vans, which are mainly employed for the transport of materials and so on. Of the total of 70 trailers, 20 are of the standard 10-ton type and two are Boden tandem-axle maximum-load vehicles, the latter being employed for the transport of frozen butter. These are equipped with Hendrickson bogies with rubber suspension and have given extremely good service, particularly with regard to handling and suspension characteristics on the road, and reduced maintenance.

A workshop staff of 13 provide a 24-hr. maintenance service, and on average vehicles are washed down every other day in a special building, equipped with an Essex power-brush washer, which adjoins the refuelling bay.

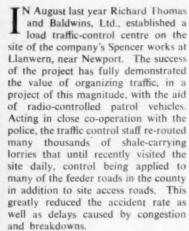
At least two tractor-trailer outfits travel on M1 in both directions every 24 hours on trunking runs to London, and the higher average speeds afforded by the motorway give valuable latitude with regard to the normal running schedule. Although the drivers report that they "often feel lonely" (mainly because most of the trunking vehicles travel at the same speed and there is very little overtaking), the reduction in journey time is welcomed. Motorway running has little effect on fuel consumption or on tyre wear, Michelin D.20 covers being fitted to all trunking vehicles operating on the London route.

A.E.C. Mandators are normally used on this route and are equipped with six-speed gearboxes with overdrive top gear, and it is considered that this transmission reduces fuel consumption and engine wear and tear, as well as improving conditions for the driver, by reducing the average r.p.m. of the power unit.

Trunking vehicles normally cover 100,000 miles in a period of 13-14 months, and are withdrawn from service after completing around 200,000 miles. They are then completely overhauled in the workshops before being taken back into service to operate on shorter runs. The total mileage of a vehicle before replacement may exceed 500,000.



(Above) This view of a Wynn's outfit carrying mill housings indicates the magnitude of transport operations on the Llanwern site.



In the current stage of development the most important traffic comprises indivisible loads of heavy structural

Radio

members up to 120 ft. long, whilst the intake of large items of equipment is progressively increasing. Patrolmen assist the police by acting as guides on the public roads (notably on the Abergavenny-Llanwern route), and accurate pre-planning by the control room staff ensures that the exact destination of the vehicle is known, and that the site route has been plotted, before arrival.

The site is 3½ miles long and 1¼ miles wide, and there are over 25 miles of main roadways that will eventually become "permanent," but which are subject to sectional demolition during the building period for pipe laying and so on. Larger contractors number over 250, and any one of these may be engaged in a variety of projects in widely dispersed parts of the site. Without exact advice from the control staff of the route to be taken, and in a typical case without guidance by a patrolman, the vehicle driver would be unable to locate the destination point. and his indecision would disrupt traffic flow on the site. Examples are numerous of vehicles arriving at the site with heavy loads consigned to Richard Thomas and Baldwins, Ltd., Llanwern, instead of a particular contractor. Before central traffic control was instituted, it was not unknown for a driver to return to his works to obtain the identity of the consignee.

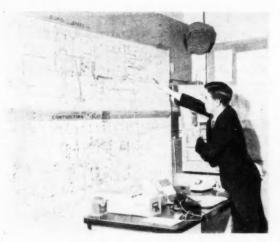
Charts and files in the traffic-control room now enable the superintendent



(Above) Nearing the end of its 270-mile journey from Sheffield, this Scammell-based unit is negotiating a low bridge near Abergavenny.



(Left) An R.T.B. patrolman is seen discussing the route to Spencer Works, Llanwern, with the driver of an indivisible-load some miles from the site.





(Left) Charts in the control room show the ever-changing state of the roadways and the exact location of the contractors' sites.

(Right) Pye radio-control equipment is conveniently located under the roof of the Land-Rover patrol car. Note the patrolman's crash helmer.

Control Streamlines Steel Works Traffic In the traffic control room a "R up-to-date by the staff with the h indicate route changes on an ho

A Richard Thomas and Baldwins Scheme at the Spencer Works at Llanwern.

by P. A. C. Brockington, A.M.LMech.E.

to direct vehicles to site locations with the minimum delay, the estimated time of arrival of the majority of vehicles being established some hours beforehand. This normally involves analysing information provided by contractors (which is often confirmed by a phone call to the supplier), and dispatching a patrolman to Caerleon or other outlying centres to pilot the vehicle to the site, following notice of its movements by the county police. The site route is surveyed by a patrolman immediately before the arrival of the vehicle if there is any doubt as to whether the normal route is open.

Three Land-Rovers, equipped with Pye radio-telephone sets, are used by five patrolmen throughout the working day, and apart from route surveying and vehicle guidance work, they provide an emergency service in the event of an accident. When an accident occurs, one vehicle is driven to the scene of the accident and a second vehicle to the main works surgery, so that advice can immediately be given by the R.T.B. doctor to the first-aid men on the spot. A number of contractors' ambulances are dispersed throughout the area.

The patrol vehicles are additional to a fleet of over 30 Land-Rovers and Austin Gypsies employed for carrying equipment and for the conveyance of security officers, surveyors, consultants, group engineers and other members of the staff. A site bus service is operated for site personnel and company's employees.

In the traffic control room a "Road-State" chart is kept up-to-date by the staff with the help of the patrolmen to indicate route changes on an hour-to-hour basis, and a second chart known as the "Contractors' Plot" is in the form of a pegboard showing the location of every project on the site. Both charts are divided into squares on the grid system, each division representing a 220-yd. square. Identifying the destination of a vehicle is further aided by the use of a transparent panel, divided into nine lettered sections, which is superimposed on the appropriate square. The letters and numbers of the square and the letters of the sections correspond to the data marked on signposts in the area.

A location is given in the form of a letter, a number and a second letter in parentheses (for example J4(N)) and this indicates the position of the contractor's site to within 70 yd., at which distance the contractor's name-board is visible.

When the works is in full production the system of radiocontrol will have been extended to cover every aspect of traffic organization on the steelworks site, including the dispersal and marshalling of road and rail vehicles, the movements of mobile plant and the operation of security and emergency services.

Although traffic control by radio was introduced as an urgent measure to cope with existing problems, the system is now regarded as a nucleus of an expanding network, or as a pilot scheme, an important object of which is to facilitate the training of patrolmen, and the drivers of ambulances, fire engines, locomotives, mobile bucket loaders and numerous other types of vehicles, in radio-telephone procedure.

The task facing the traffic control superintendent when the steelworks has started production is indicated by estimates of incoming raw material and outgoing steel ingots, a substantial proportion of which will be carried in road vehicles. Intake of iron ore (mainly from Newport docks) will average about 3.9 m. tons a year, whilst mines and quarries in the area will supply over a million tons of coal, 622,000 tons of limestone, more than 292,000 tons of dolomite and around 170,000 tons of coke. Initial yearly output of ingots will be approximately 1.4 m. tons.

O BIANCE O

Germany Li

(Left) The M.A.N. 4×45-ton tipper has a good off-the-toad performance. The special construction of the front axle affords good ground clearance, as can be seen. (Right) Supple suspension permits a high degree of inter-axle articulation, with consequent traction benefits.

A LTHOUGH medium-capacity 4 x 4 chassis are rarely used by the average haulier in Great Britain, this position does not hold good in many other parts of the world. In Germany, for instance, most of the tipping vehicles used by haulage, building and civil-engineering contractors are based on normal- or semi-forward-control 4 x 4 chassis, and in that country there seems to be little call for the relatively lightweight forward-control 5-, 6- and 7-ton tipper as we know it.

A typical example of a popular type of German tipper is the M.A.N. 415 L1AK, which in its home country has a gross solo weight rating of 9 tons 8 cwt. (10 tons 6 cwt. for export chassis), permitting payloads of up to about 5 tons. Despite the fact that this 4 x 4 model costs about £500 more than the standard 4 x 2 version, it has proved extremely popular with German tipper operators, so 1 was most interested to road test one of these vehicles.

One of the more striking things about the 415 4 x 4's road performance was its fuel economy, particularly as front-wheel-drive is permanently engaged, as will be



explained later. The crosscountry performance also was good, the theoretical gradient ability in low auxiliary and bottom gear being in excess of one in 2, although I did not actually put this to the test.

The specification, attention to detail and general finish of this M.A.N.

vehicle reach a particularly high standard, therefore it is not surprising that German operators of this type of vehicle expect—and achieve—a useful working life from their tippers of at least 10 years.

As with all current M.A.N. goods and passenger designs, an "M"-system diesel engine is employed. The D 0026 M1 unit used has a swept capacity of 5.89 litres, and its gross and net power outputs at 2,500 r.p.m. are 123 b.h.p. and 115 b.h.p. respectively. The gross and net torque ratings at 1,400 r.p.m. are 294 lb.-ft. and 274 lb.-ft.

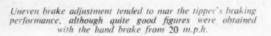
The engine shares a four-point mounting with the Z.F. five-speed constant-mesh main gearbox, this box having direct top gear. From the rear of the box a short shaft takes the drive above the level of the chassis frame into the front of the two-speed auxiliary and transfer box.



Unlike most transfer boxes of this sort, the M.A.N. design includes an inter-axle differential, but no means of engaging and disengaging the drive to the front axle at will. Whilst this permanent drive to the front wheels may be thought to increase tractive resistance, tyre wear and fuel consumption, the M.A.N. engineers have proved that this is not so.

The inter-axle differential helps in this respect, but this differential would be no asset when crossing rough or slippery ground if it could not be locked, so a manual locking mechanism is provided. Thus, when the vehicle is being driven along a slippery road the power at the front wheels helps to give directional stability, and this is particularly important when engaged on tipping work because of the amount of mud and slush likely to be left on the roads in the vicinity of the site.

Permanent front-wheel drive has little adverse effect on the steering and general handling of the 415 4 x 4: indeed, I did not realize that the transmission layout was as it is





ikes Its Tippers Fough



Typical of Current German Medium-duty Tipper Design, the M.A.N. 415 L1AK 5-tonner is a Normal-control Four-wheeldrive Model with Several Unusual Features, Including Permanent Front-wheel Drive and Four-wheel Hand Brake: 5.89-litre "M" Diesel Engine Gives Good Economy

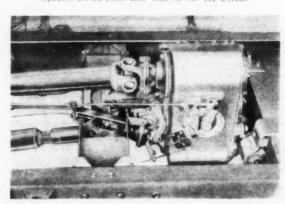
by .
John F. Moon,
A.M.I.R.T.E.

until I had driven the chassis for a number of miles, putting the slight steering vagueness down to variations in the fronttyre pressures.

Single propeller shafts take the drive to the front and rear axles, and these axles follow the usual M.A.N. pattern in having dead I-section beams with the drive shafts running parallel to them. The universal joint at the steering knuckles on the front axle are not enclosed, but are of the constant-velocity type. Both axles are double-reduction units, with spiral-bevel primary gearing and straight-spur secondary trains at the outer ends of the drive shafts, these trains being inboard of the universal joints in the case of the front axle.

This front-axle arrangement does tend to complicate lubrication somewhat as it means that each of the three sets of gears has separate oil housings, whilst in addition the exposed universal joints have to be gun lubricated. On the credit side, however, the low overall height of each

(Below) The special transfer box incorporates a lockable differential. (Upper, right) The Bosch double-acting frombake servo is described overleaf. (Below, right) The M.A.N. driven from axle used in the 415 L1AK.



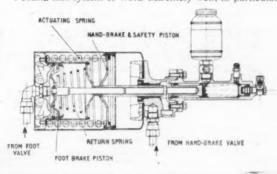


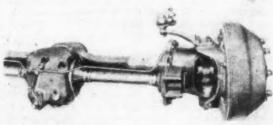
The tipper follows normal M.A.N. practice in having a particularly well-finished cab. The unusually small clutch pedal can be seen in this picture.

axle assembly increases ground clearance, the clearance beneath the differential housings being about 12 in.

The suspension of an off-the-road vehicle such as this can make or mar its performance, and it is obvious that a fair amount of thought has gone into the design of the 415's springs. These are of the progressive type, and the front and rear ends of the main leaves are free to slide against pads on the undersides of frame brackets. This layout in itself is nothing novel, but instead of employing radius arms to provide longitudinal location and to absorb driving and braking torques, two of the lower leaves of each spring are extended forward and have their ends formed into eyes, and these eyes are secured to the forward spring brackets by conventional pins.

I found this system to work extremely well, in particular





ROAD TEST No. 713/M172-M.A.N. DIESEL-ENGINED 5-TON 4 x 4 TIPPER



1-2-4-6-5-3 FIRING ORDER COMPRESSION RATIO 19:1

VALVE CLEARANCES INLET 0-0078

MODEL: M.A.N. 415 L1AK 11-ft. 9-in.-wheelbase 5-ton semi-forward-control 4 x 4 tipper Chassis. with standard all-steel cab and Meiller 3.5-cu-yd chree-way tipping body.

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	Unladen	(kerb	weigh

Unladen (kerb weight) Payload Driver, observer, etc.	 Tons 4 4	4 16 3	9r 0 0 2
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DISTRIBUTION .			-

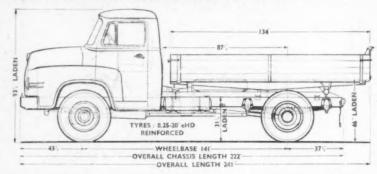
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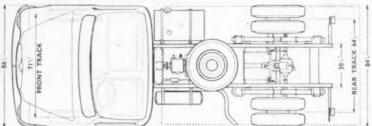
FNGINE: M.A.N. D. 0026 M1 six-cylindered directinjection diesel engine; bore 100 mm. (3.94 in.); stroke 125 mm. (4.92 in.); piston-sweptvolume 5.891 litres (358 cu. in.); maximum net output 115 b.h.p. at 2,500 r.p.m.; R.A.C. rading 37 h.p.; maximum net torque 274 lb.-ft. at 1,400

TRANSMISSION: Through 11-in-diameter single-dry-plate clutch to Z.F. AK5-33 five-speed con-stant-mesh gearbox and two-speed auxiliary box, incorporating permanent drive to both axles through a lockable differential, thence by one-piece propeller shafts to the M.A.N. fully floating double-reduction front and rear axles

GEAR RATIOS: Main gearbox; 7.57, 3.99, 2.27, 1.36 and 1 to 1 forward; reverse 6.97 to 1; auxiliary box, 1.755 and 1 to 1; axle ratio 6.24 to 1.

BRAKES: M.A.N.-Bosch-Teves system, with air-hydraulic actuation of the front brakes and direct air actuation of the rear brakes. Leading-and trailing-shoe units at both axles. Single-pul hand brake linked mechanically to rear wheels and by air-hydraulic circuit to front wheels. Diameter





of drums, front, 17.5 in., rear 17.5 in.; width of linings, front, 3.15 in., rear 4.0 in.; total frictional area, 357 sq. in., that is, 39.0 sq. in. per ton gross weight as tested

FRAME: Pressed-steel channel section, with six cross-members riveted in position.

STEERING: Z.F.-Gemmer GD58 cam and roller: 6 turns from lock to lock. SUSPENSION: Semi-elliptic progressive springs with sliding ends.

ELECTRICAL: 12v. compensated-voltage-control system with 84-amp.-hr. batteries.

FUEL CONSUMPTION: (a) normal operation, laden, 22.0 m.p.g. at 29 m.p.h., average speed; (b) high-speed motorway operation, laden, 16.7 m.p.g. at 43 m.p.h. average speed, that is 202 gross ton m.p.g. as tested (a), and 153 as tested (b), giving time-load-mileage factors of 5,858 (a) and 6.579 (b). (b), giving time-and 6,579 (b).

TANK CAPACITY: 26.5 gal. normal-speed laden range approximately 580 miles,

ACCELERATION: Through gears, 0-20 m.p.h., 14.8 sec.; 0-30 m.p.h., 27.7 sec.; 0-40 m.p.h., 47.9 sec.; direct drive, 10-20 m.p.h., 13.8 sec.; 10-30 m.p.h., 27.8 sec.; 10-40 m.p.h., 47.3 sec.

BRAKING: From 20 m.p.h., 31,25 ft. (13.7 ft. per sec per sec.); from 30 m.p.h., 66.5 ft. (14.5 ft. per sec. per sec.). Hand brake from 20 m.p.h., 31 per cent. (Tapley meter).

WEIGHT RATIO: 0.63 b h.p. per cwt. gross weight

FORWARD VISIBILITY: To within 15 ft. of front bumper at ground level on centre line.

TURNING CIRCLES: 50.5 ft. left lock, 48.5 ft. right lock. Swept circles: 53.0 ft. left lock, 51.0 ft. right lock.

MAKERS: Maschinenfabrik Augsburg-Nürnberg A.G. Munich, Germany.

giving a smooth ride on indifferent road surfaces, but the front springs have been found to have too low a rate characteristic, so different springs are shortly to be adopted which will be stiffer, and so reduce the tendency for the axle to rotate when braking, a characteristic which has an adverse effect on the steering. The new front springs are to be of a more simple type, pinned to the frame at their forward ends and sliding at the rear.

Leading-and-trailing-shoe brakes are used at both axles. The front brakes are hydraulically operated, and boosted by a special dual-piston, double-acting air-pressure servo. The cam-type rear brakes are actuated by an axle-mounted air cylinder. The foot-brake system is conventional, being controlled by a single valve with a treadle pedal, whilst the hand-brake lever acts on the rear brakes through a mechanical linkage and on the hydraulic front brakes through the air servo.

This Bosch servo requires some explanation. It contains two separate pistons, the larger of which operates the hydraulic master cylinder by spring pressure, being linked to the master-cylinder piston by a hollow piston rod. Air pressure acting on the forward face of the servo piston holds the piston back against this spring pressure, and this condition applies whenever the pressure throughout the air

circuit is above 60 p.s.i., and whenever the hand-brake lever is off.

Air-pressure failure, or application of the hand brake, destroys pressure in front of the piston, however, allowing the spring to move the piston, thereby applying the front brakes. Thus, the vehicle cannot be moved when the air pressure is low, although a hand valve is provided in the hydraulic circuit to release the pressure and so permit towing under such circumstances.

The foot-brake valve is piped to the back of the smaller piston in the servo assembly, and this actuates the master cylinder upon admission of air pressure to its rear face in the normal way. Each of the two servo pistons is free to move independently, being quite sealed off from each The two-piece piston rod from the rear piston moves inside the hollow piston rod of the other piston.

Although M.A.N. 415 4 x 2 chassis, ranging in wheelbase from 10 ft. 6 in. to 15 ft. 9 in., are available with either semi-forward- or full-forward-control, 4 x 4 models are built with semi-forward-control only. This is because the manufacturers realize that to provide forward control the front axle would have to be moved forward, which in turn would mean raising the engine, with corresponding increase in the height of the cab above ground level, a layout which the M.A.N. engineers feel would be unacceptable. In this respect I agree with them, particularly with regard to normal tipper operation.

The semi-forward-control cab is similar to that used on the larger 770 model, a road-test report of which appeared in *The Commercial Motor* on May 26, 1961. Two passenger seats are provided, the driving seat being separate.

All the instruments and switches are mounted immediately ahead of the steering wheel, and the manual controls are conveniently sited, although the diminutive oval pad of the clutch pedal does not provide much area for the foot to bear against.

The test vehicle was fitted with a Meiller three-way timber tipping body, actuated by a single hydraulic ram positioned close to the centre of gravity of the body. Because of its shallow sides the body had a struck capacity of only 3.5 cu. yd., but this type of body is more commonly used on the Continent than the British type of high-sided assembly, although because of the low sides the body length is greater than that of a normal British tipping body.

Spare-wheel stowage is provided across the top of the frame, under the forward half of the body floor, an arrange-ment which can sometimes necessitate having to raise the body slightly before the wheel can be removed.

Gravel was used for the payload, and the body was



Engine accessibility is somewhat restricted because of the shape of the frontend panelling. The front-brake servo and master cylinder can be seen on the scuttle, alongside the engine.

almost filled with this commodity, which weighed 4 tons 16 cwt., bringing the gross weight for the test to 9 tons 3½ cwt. complete with a German engineer and myself aboard.

Brake tests were carried out first, and these were spoilt by uneven brake adjustment which was causing locking at the nearside rear, with subsequent loss of retardation efficiency. The stopping distances recorded were not outstanding, therefore, although maximum retardations were good, the meter showing average figures of about 65 percent. The hand-brake performance was entirely satisfactory, a mean figure of 31 per cent, being achieved from 20 m.p.h.

Because of its maximum speed of 47 m.p.h., the 415 could be acceleration-tested at up to 40 m.p.h., and the times recorded both through the gears and in direct drive were surprisingly good. Commendable in this connection were the good gear-change action and the almost entire absence of transmission noise—this latter being a rarity on multi-wheel-drive chassis and suggesting high overall transmission efficiency.

The Munich-Berlin Autobahn was employed for these acceleration tests, and the same stretch of fairly level road was used for the fuel-consumption runs also. Because the test tank provided could only measure a small quantity of fuel, these runs were made over a 1-kilometre measured

distance and readings were commenced and finished while the vehicle was moving, a method which gives slightly better figures than are obtained on the type of fuel tests normally made by *The Commercial Motor*, which are taken over a longer distance, with readings taken when the vehicle is at rest at each end of the run.

Even allowing for this, however, it is obvious that this 4 x 4 is very economical, and if the permanent drive to the front wheels is costing any fuel, the standard 4 x 2 models must be about the most economical of their type.

Engine-cooling tests were carried out on a 1.69-mile-long slope farther north along the same Autobahn, the average gradient being I in 16.5. The ambient temperature was 50° F, and the climb was made in 4 minutes, the ascent causing the engine-coolant temperature to rise from 168° F, to 183° F, During this climb the radiator blind—which is a standard fitting, and can be adjusted by the driver while on the move—was set so that exactly half the radiator block was blanked off.

The climbing speed was good, and the lowest ratio used during the ascent was fourth, this being engaged during the majority of the time of climbing with the speed never dropping below 17 m.p.h. and generally being in the region of 27 m.p.h., which is close to the speed at which maximum engine torque is developed.

Brake-fade Check

Brake anti-fade performance was checked by coasting the 4 x 4 in neutral down this same hill, the foot brake being applied for $3\frac{1}{2}$ minutes during this descent so as to restrict the speed to 20 m.p.h. At the bottom of the hill a full-pressure foot-brake stop from 20 m.p.h. caused the retardation meter to record 47 per cent., showing a reduction in efficiency of 18 per cent.

An exhaust brake with heel-operated control is optional equipment on this series of chassis, however, so any tendency for the brakes to lose efficiency to a dangerous degree when descending long down grades can be overcome by specifying this equipment. Even so, the frictional area is on the low side for a vehicle of this weight, and lining wear might be found to be rapid.

Other than the slight tendency to wander which has already been commented on, the 415 4 x 4 handled well on the road and I found it very comfortable to drive. The steering wheel is rather high relative to the driving-seal however, and the height of this seat cannot be adjusted.

As with all M.A.N. "M"-system diesel engines, engine noise is remarkably low at all speeds and, although this might be a bit of a luxury for a "maid of all work" vehicle such as a tipper, it is nevertheless not to be scorned.

The tipper behaved admirably across rough country, ascending grass-covered slopes approaching 1-in-2 severity with ease. Neither the low auxiliary ratio nor the inter-axle differential lock was necessary often, bottom gear gradability with high auxiliary engaged being 1-in-2.5.

Dunlop 8.25-20-in. "eHD reinforced" tyres with a semicross-country tread pattern are standard equipment on this chassis and, although the depth of the tread pattern was not pronounced, good wheel adhesion was noted at all times on grass, gravel and mud. Undoubtedly, the even loading of the wheels would be a contributive factor in this respect.

The M.A.N. 415 L1AK as tested costs the equivalent of £2,450 in Germany in chassis-cab form, and £2,725 when equipped with three-way tipping body. These prices are somewhat high by British standards, being nearly £1,000 more than the least expensive 4 x 4 tipper on the British market. However, the price is compensated for by the high quality of the product and its potential longevity. Export prices are not necessarily as proportionately high compared with competitive non-German vehicles: much depends on the trading terms.

COMMENTARY

by JANUS

BREAK THROUGH

810

EVERY technical or operational improvement made by the railways is paraded before the public in the Press and elsewhere and is usually greeted as yet another step in the process of winning back traffic from road transport. There is seldom much evidence for this assertion, and in the event it is even less frequently that the improvement has any noticeable effect on the fortunes of the railways. Sometimes, after a trial period, it is quietly dropped and no more is heard of it.

There is no reason to suppose that this will happen to the Roadrailer, the new double-purpose vehicle that by means of dual sets of wheels can be hauled either as part of a train or by a lorry. After some months of experiment and demonstration, the British Transport Commission have now placed the first bulk order in this country. They borrowed the idea from the Chesapeake and Ohio Railroad. Reports from the United States are conflicting. Some say that the Roadrailer is an outstanding success; others that the pioneering railroad is already thinking of abandoning the experiment and cutting its losses.

This would be surprising in view of the encouraging comments received by the B.T.C. But whatever happens in Great Britain, the Roadrailer will certainly not fail for lack of adequate publicity. Some of the comments give the impression that it is a master-stroke, capable within a short space of time of solving all the problems of the railways.

It is not often that a road transport development receives so much attention. This is not because the manufacturers of road vehicles are uninventive or unable to appreciate what makes news. The reason may be rather that, although there have been drastic and outstanding changes within the present century, few of them have made any difference to the way in which the vehicles are operated. The principles on which a road transport business should be run have remained substantially the same.

W HAT the scientists and technicians are fond of calling the "break through" seems to have taken place almost from the start of the mechanical road transport industry. After the introduction of the first road vehicle it was not long before vehicles were carrying passengers and goods for hire or reward. There may be a claimant for the distinction of having invented the lorry, but the development was so natural that it is almost certain to have taken place simultaneously in different parts of the country.

The road is as old as civilization, if not older. The horseless carriage and cart for the first time made the freedom of the road a reality. It became possible, even with the indifferent roads that are still far from adequate, to pick up a consignment of goods, large or small, and to deliver them in the same vehicle and in reasonable time. Door-to-door transit, previously possible only for short journeys, became commonplace overnight.

With what now appears astonishing rapidity, the various basic types of commercial vehicle evolved. Once again names may be put forward for the original inventors, although the process was so swift as almost to seem automatic. The general aim was to carry to the limit the ability to pick up a load from one exact spot and deliver it to another, and the process was in some cases brought to a remarkable pitch of perfection at a very early stage.

The tipping lorry, for example, seems to have burst

upon the world fully equipped, like Minerva from the head of Jove, just as at the present any number of its descendants seem almost to spring from the ground whenever a civil engineering contractor stamps his foot, and spring in such a hurry that they have usually forgotten to bring such mundane things as licences from whatever region has snawned them.

It has been said with truth that the tipper is a remarkable precision instrument. It can go almost anywhere to collect a load, often of the most intractable material. It will take 10 tons or more to the required site, which may also be well off the beaten track, and a skilful driver can tip the material in the centre of the target. This every-day feat has saved innumerable hours of labour, and the saving began with the first tipper. New refinements continue to improve an already high standard of accuracy, but they are no more than refinements. The first tipper alone was responsible for the break through.

MUCH of the technical ingenuity of the railways is concentrated on ways and means of countering the explosive discovery of door-to-door delivery some 50 years ago. The lack of flexibility of which they stand accused will always hamper them in competition with road transport. They can never hope to overcome it completely and the best they can do is to foster some development such as the Roadrailer that can at least create the right impression. By this means for the first time the same vehicle can collect and deliver a load over the railways at points where there are no sidings. In a modest way this represents a break through, but the limited application of the Roadrailer underlines the magnitude of the problem.

Much of the mental activity of the railways runs in the same direction. Unable to emulate the advantages of road transport, they seek to bring it under their control, by means of a licensing system coupled to one of the many variations on the theme of integration. The concept seldom finds favour among road operators, even it may be suspected when they are nationalized. They are pleased to work with the railways, even to work closely with them, when there is something to be gained. They can much more easily than the railways do without co-operation. It is an aid, not a necessity.

HE subject of integration, with its political overtones, is again coming to the fore with the evident determination of the Labour Party to renationalize road haulage if they are given the opportunity. The Socialists may feel, in some obscure way, that their obsession will ultimately be to the advantage of all forms of transport. An interesting comment may be found in an article on transport in Russia that recently appeared in The Financial Times under the names of two research workers at the Russian Institute of Integrated Transport Problems. After the Revolution, the whole transport system in the Soviet Union was "planned, centralized and integrated," the article states. Over 40 years later, road transport accounts for only five per cent. of the total turnover. "It caters mainly for local needs, primarily in retail trade, agriculture and construction, but also for deliveries to and from railway and river terminals.' If this is where integration leads, the British public are perhaps wise in deciding to have nothing to do with it.

What Isn't There Costs Nothing

Photograph by courtesy of Alloy Transport Sections Ltd., Birmingham

What

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There?

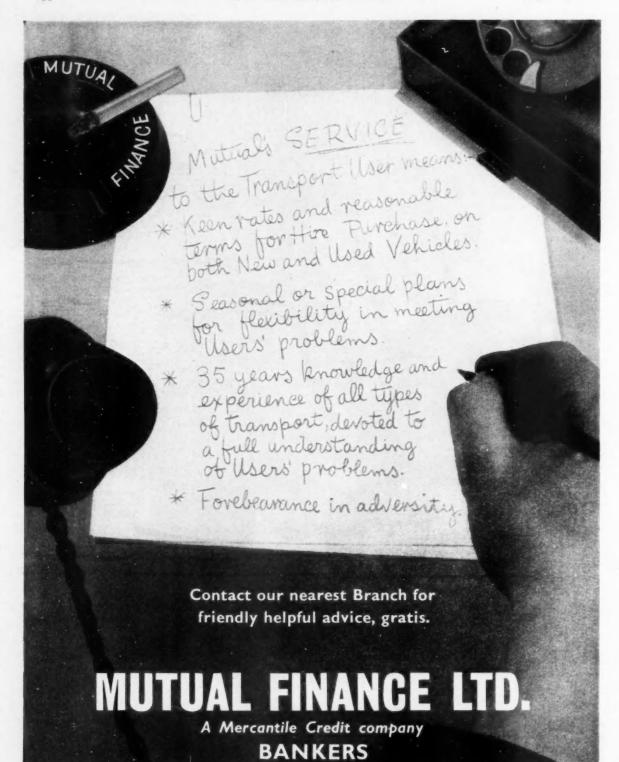
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Expansion Trends in Haulage

Large Block Applications Make Their Appearance

THERE are several large block applications for both A and B licences this week. The largest is one by Flynn Brothers (Contractors), Ltd., of Manchester, who are excavation contractors. They ask for 50 vehicles of 200 tons-10 to be acquired and 40 to be hired-to carry road-making materials in connection with the Preston-Warrington Motorway. How operators in the area, already doing this type of work. will react, will be interesting.

McPhee's (Newcastle), Ltd., in the Northern Area, are applying for a new A licence in respect of 23 vehicles and an artic., totalling over 175 tons. Their normal user will almost certainly invite objections from certain N.W. Durham operators who carry

steel and steel products.

Further north still, McKelvie and Co., Ltd., of Paisley, want to add 153 tons, in the shape of 18 artics, operating under a new A licence; but the normal scope is restricted to one named customer—Pressed Steel Co., Ltd., of Linwood.

Another recently published block application is one by T. W. Regan, in the Metropolitan Area, who want to vary their A licence by adding 10 artics. with refrigerated boxes attached, to carry perishable foodstuffs and ship's stores to the larger northern ports.

SCOTTISH (NORTH)

Applications

SN 24/6/1.—Kelman's of Turriff, new A lie, 1 I, art (4/2t) tanker. Oils in bulk to North West

SN 24/6/1.—Kelman's of Turriff, new A ftc., I tf. art (4/2) tanker. Oils in bulk to North West and South England. SN 24/6/2.—Universal Hautlers (Aberdeen', Ltd., Blackburn, Aberdeenshire, New A ftc. 2 art. (20t) (to be hired). Oils, fats, sprits and other liquids in special bulk containers to Central and South Scotland, North West Midlands, East England and

SCOTTISH (SOUTH)

Applications

Applications

SS 24/6/1.—P, A. Laing and Co., Hawick, new A. Bic., 2 veh. (9) and 2 art. (7%). Timber to El'esmere Port Irom Border Forests for G. C. Croawdale Gawmilis). Ltd., and J. Norton (Pulpwood). Ltd. SS 24/6/2.—Coration Coal Co., Ltd., Penicuik, new A. Bic. 1 veh. (3%). All mechanolise, imber, gravel and coal within Scouland and England. SS 24/6/3.—Peter Strain, Newton Stewart, new A. Bic., 2 veh. (7%) and 1 art. (4%). Agric, produce and requisites for West Cumberland Farmers Irading Society, Ltd., Whithorn, in the Southern Division of Scottish area and North of England. If granted contract-A lic. will be surrendered. SS 24/6/4.—McKelvie and Co. (8.M. and P.J., Ltd., Paisley, new A. Bic. 18 art. (153t). Steel products and accessories for Pressed Steel Co., Ltd., Linwood, to ports and assembly plants in G.B. SS 24/6/5.—Thomas McDonald, Barrhead, new A. Bic., 2 veh. (7%). Goods for Dussek Bitumen and Taroleum, Ltd., and Scottish Fellmongers, Ltd., mainly in Scotland. If granted contract-A lic., will be surrendered.

be surrendered.

William Feeney, Dunipace, new 4'-t). Building and road mats wi \$5 24/6/6 I veh. (41-t). 30 miles

30 miles. SS 24/6/7.—J. P. Roberston and Co., Ltd., Kilmarnock, new B lic. I veb. (4/4). Non-ferrous metals from Yorkshire and Lancashire to Edinburgh, Glasgow and Kilmarnock. SS 24/6/8.—McNamee and Sons, Wishaw, new B lic. I veb. (10). All goods within a radius of 40

mites.

SS 24/6/9.—Archibald S. Reid, Airdric, B var., add 2 veh. (10). G.g., G.B.

SS 24/6/10.—Gordon B. Caldwell, Ltd., Wishaw, B var., add 6 veh. (25/£). Goods within Glasgow and Lanark, Dunbarton, West Lothian and Renfrew.

NORTHERN

Applications

N 20/6/1.—R.C.C. Carrying Co., Ltd., Blyth, new A lic., 2 veh. (6%) (dropsides). All classes of foodstuffs including meat, scrap metals, refined metals, machinery, coal, coke, building mais, newspapers and periodicals, parcels, timber, waste mats, furniture, ship stores, draperies, paints and chemicals. Northumberland, Durham. Yorkshire, Lancashire, Midlands, occasionally London and Scotland.

N 20,6/2, L. Titterington, Motherby (Pen-ruddock), new A Itc., 2 veh. (6½), Milk, lime, road mats., farm produce. Northern England and Southern Scotland.

N. 20/6/3.—McPhee's (Newcastle), Ltd., new A. lic., 23 vels. (167%) and 1 art. (St. 13c). Mainly steel, tubings, castings, machinery and chemicals. North East coast, Birmingham, Midlands, London and Scotland.
N. 20/6/4.—T. Dodds, Bedlington Station, A var. add 1 veh. (4t) 80 per cent. goods for Jones and Campbell, Ltd., and return loads.
N. 20/6/5.—R. L. Stamper, Carlisle, A var. add 1 veh. (4t) with cattle container (20. N. 20/6/6.—A. Sandersom (Great Broosphton), Ltd., N. 20/6/6.—A. Sandersom (Great Broosphton), Ltd.

N 20/6/5.—R. I. Stamper, Carliste, A var. add 1 veh. (44) with cattle container (20).

N 20/6/6.—A. Sanderson (Great Broughton), Ltd., A var. add 1 veh. (60), delte 1 veh. (31 foet.) A var. add 1 veh. (60), delte 1 veh. (31 foet.) Mainly machinery, building mats., scrap metals, foodstuffs, farm produce, grease, paper, oil. Lancashire, Yorkshire, London and as required.

N 20/6/7.—T. Smirthwaite, Ltd., Northallerton, A var. add 1 veh. (61 Re), delte 1 veh. (30).

N 20/6/8.—J. R. Wilson and Son, Penrith, A var., add 1 T. (51) to be used for maintenance purposes.

N 20/6/9.—J. G. Proudlock, Morpeth new B Itc., 1 T. (41) and 1 T. (31 &) (specified in C lie.). Goods for P. Grayston and Co., Ltd., The Northern Farmers Trading Association, Ltd., Amalgamated Roadstone Corporation, Ltd., and John Metcaffe and Co., N 20/6/10.—L. Robson and Sons, Craster, new B Itc., 3 vehs, (10%4). Coal within 10 miles; livestock, furniture and household effects, road and requisites within 180 miles; large, the state of the state

CONTRACTIONS: add, additional; agric., agricultural; art. articulated unit; c, cwt.; g.g. general goods; G.B., Great Britain; iid., indivisible; lic., licence; low-left, low-loader; mats., materials; N.U., normal user; S.T., special type: t, tons; T., tipper; trl., trailer; var., variation; wh., wheels.

N 20/6/11.—F. Willis, Hetton-le-Hoie, new B lic., 1 veh. (3t 9c) (dropside) and 1 veh. (3t 18c) to replace 1 T. (30. Coal and coke, furniture and household effects within 10 miles; road and building mats., within 70 miles. Goods for Samuel Tyrack and Co., Ltd., as required.

N 20/6/12.—Direct Transport (Bishop Auckland, Ltd., Richop Auckland, B var., add 1 veh. (5t 11c). Building mats., within 100 miles.

N 20/6/13.—C. and N. Stodart. Brompton (Northalperton), B var., add 1 veh. (3t 6c) (cattle truck) with container (2\frac{1}{2}\). Pigs to slaughterhouses for Fatstock Marketing Corpn. as required, other livestock within 40 miles and foodstuffs within 70 miles.

NORTH WESTERN

NW 23/6/1.—S. Hall, Ltd., Salford, new A lic., veh. (4t). Engineering goods and mats, through-ut G.B. (I veh. (3)-4) now on contract-A lic.).

NW 23/6/2.—T. Pearson and Co., Ltd., Balton, A var. delete 1 vch. (5%) includes container (1%). Add 1 vch. (7%) includes container (20). Meat and foodstuffs: G.B.

NW 23/6/3.—T. Maxted and Sons, Manchester. var. add 2 vch. (7t.) vans. NW 23/6/4.—F. Plutt, Ltd., Salford, add 2 h. (8t).

NW 23 6/5.—Mark Barnes and Sons, Haslingdon, new B lic., 1 T. (3½t). Solid fuel, industrial waste, building and road making and excavation mats, and requisites, timber, furniture, textiles and textile requisites within 25 miles. Vehicle on contract-A

NW 23 6.6.—Talke Slag and Ash Co., Ltd., Knutsford, new B Jic., 7 T. (27%). Sand. gravel, red shale, site work within 25 miles.

NW 23/6/7.—F. W. Hancock, Macclesfield, new B lic. 1 veh, (4½t). Textile machinery, building plants, mats., road construction plant and road mats. agric. produce and requisites, all within 200

NW 23/6/8.—Flynn Bros. (Contractors), L4d., Manchester, new B lie, 50 veh. (2001) (10 to be acquired and 40 to be hired). Carriage of road-making mats, and excavated earth in connection with the construction of the Preston-Warrington Motorway, within 50 miles.

EAST MIDLAND

Application

EM 14/6/1.—B. E. and T. R. Woodin, Potters sry, new A lic., 1 veh. (10t). G.g., G.B.

EM 14/6/2.—Murphy Bros., Ltd., Thurmaston var., add 4 vch. (321)

EM 14/6/4.—F. Loxiey and Son. Ltd., Bonsall (Matlock). B var., add 1 veh. (31-0). Tarred and dry limestone within 75 miles.



Castrol, Ltd., use this smart caravan articulated vehicle at agricultural shows in the United Kingdom. The semi-trailer was built by Rollalong, Ltd., and is divided into two lounges and a kitchen bar. A lean-to tent can be used on the site, to provide extra accommodation. The prime mover is a Bedford TK 8-ton unit with two-speed axle.

Applications

EM 28.6.4.—Crossways Garage (Ipsden), Ltd., new B lic., 2 veh. (6t 16c) at present specified in C lic., General and farm goods 100 miles, and

Rew B. B.C., 2 ven. 16t 16c) at present specified in C. lic. General and farm goods 100 miles, and sugar beet to Kidderminster.

EM 28.65.5—A. L. Warner, Chipping Norton, new B. lic., 1 veh. (4t 3c). Sand, shingle, ballast, stone, 40 miles and lime 150 miles.

EM 28.66.6. W. J. and W. A. James, Towcester, new B. lic., 1 veh. (5t 19c) and 1 tel. (4t 19c) 1 art. (4t 5c) pole trailer. Timber in the round from woods to sawmills and rathead as required. If granted contract-A lic. will be surrendered.

EM 28.67.—E. C. Partridge, Ltd., Belper, B. var. 1 veh. (4t 5c). To be used only when any authorized veh. on A. B or contract-A lic. is withdrawn from service for overhaul or repair.

EM 28.68.—Wheat Brothers, Birstall (Leicester), B var. add 1 veh. (5t 15c). Solid and smokeless fuels as required. If granted contract-A lic. will be surrendered.

EM 28.69.—S. W. Spencer, Ltd., Leicester, B. EM 28.69.—S. W. Spencer, Ltd., Leicester, I.

be surrendered. EM 28/619,—8. W. Spencer, Ltd., Leicester, var., add 2 veh. (7t). Goods (excluding furnitu and household effects) within 50 miles.

Applications

Lancashire, Yorkshire. (Now on contract-A lic.) WM 15/6/3.—W. G. Skyrme, Eardisley, A var. delete I veh. (5½) and container (2½) and I veh. (7½) and container (2½). Mainly livestock and all agric, requisites, machine parts, gas bottles and furniture. Mainly Herefordshire and adjoining counties.

furniture. Mainly Herefordshire and adjoining counties.

WM 15/6/4.—Oldbury Transport, Ltd., Oldbury, A var., add 2 art, (17/40). Metal and metal goods, engineering and colliery plant, equipment and tools, motor vehicles and parts, and building mats.

WM 15/6/5.—B.R.S. (Parcels), Ltd., Willenhall, A var. add 5 vch. (27/40) includes 2 art, units (two at 3½ t each) trls. (two at 3 t each). Mainly parcels/smalls, within 200 miles.

WM 29/6/6.—Links Haulige, Shrewsbury, A var. delete 1 vch (3½). Add 2 vch (14½0). Mainly steel (various) building materials, motor vehicle components and setap metal. Mainly Midlands, London area, and Eastern Counties. If granted. contract-A lie, will be surrendered.

WM 29/6/7.—B.R.S. (Parcels), Ltd., Stoke-on-frent, A var add 1 art (6½). G.g., mainly parcels/smalls; collection and delivery within 40 miles and services within 150 miles.

WEST MIDLAND

Glass-fibre is employed in the construction of the body on this bulk ice truck operated by United Carlo Gatti, Stevenson and Slaters, Ltd. Stevenson Mounted on a Thames Trader chassis, it has a capacity of 6-8 tons.



WM 29/6.8.—H. Starkey, Wolverhampton, var., add I veh. (40). Mainly castings and semetal and household appliances. Midlands ngs and scrap Midlands and Applications

WM 15/6/1.—Onkfield Transport Co., Ltd.,
Kingswinford, new A. lic., 2 veh. (6/24). Mainly
castings, steel, malleable pipes and scrap, within
250 miles fnow on contract-A lic.). Also 1 art.
(unit 4t trl. 4t). Mainly steel joists, 36.40-ft.
lengths within 250 miles radius.

WM 15/6/2.—Wild, Condon, Ltd., Stoke-onTreat, new A. lic, 6 T. (50/24). Salt and chemicals,
Cheshire, London, South Wales, South Coast,
Lancashire, Yorkshire. (Now on contract-A lic.)

WM 15/6/3.—W. 6, Skyrme, Eardisley, A. W.

WM 15/6/3.—W. 6, Skyrme, Eardisley, A. Ser

metal and local local and local local area.

London area.

WM 29 6.9.—C. A. Liggitt. Bewdley new local ush (2t). Delivery of furniture and house local local

SOUTH WALES

Applications

Applications

SW 28.6 [1.—]. R. Thomas. Abersstwyth, B var., add 1 veh. (13/t) (Land Rover). Towing of caravans within 200 miles.

SW 28.6 [2.—]. G. Roberts, Llanelly, B var., add 1 veh. (25/t). Goods for Vacuum Oil Co., Ltd., within 50 miles and all goods within 12 miles of Cwmbach Road, near Llanelly.

SW 28.6 [3.—The Star Brick and Tile Co., Ltd., Ponthir, B var. add 1 T. (43/t). Goods for Star Brick and Tile Co., Ltd., and associated companies as required. as required.

s required.

SW 28/64.—A. J. Elliott and Co., Pontypool.

t var., add 1 T. (4/41). Bricks for Little Mill

trick Co., quarried mats, filliurs and sand required

or the construction of the Spencer steelworks,

lanwern, on behalf of Sir Robert McAlpine and

on, Ltd., within an area bounded by Chepstow,

toleford, Brynmawr, Cefn Coed, Treherbert and

EASTERN

Applications

E. 26/6/1.—R. Dunning, North Walsham, new lie, I veh, (61). Goods, mainly agric, and food-fists mainly Eastern Counties, London, Midlands of N.W. of England.

E 26/6/2.—T. and J. Kidner, Ltd., Brampton var, add 5 veh. (18%). If granted, veh. deleted om B lic. E 26/6/3.—L. A. Jackson, Chesterton, new B lic. T. (3%). Hardcore, top soil, building mats.

E 26/6/3.—L. A. Jackson, Chesterion, new in it. T. G. 130. Hardcore, top soil, building mats. 50 miles. E 26/6/4.—Miller Car Transport, Ltd., Staple-ford, new B lie, 2 art (15/40 Car transporters). Completely assembled motorcars and vans on wheels, not crated. E 26/6/5.—A. E. Cater, Yaxley, new B lie, 2 veh. (8/4). Asric, and horticultural produce and requisites for Russell Burgess, Ltd., for delivery in South Wales; coal for Walter Woodthorpe of Boston Docks, collected at pitheads in South Wales for delivery in North Norfolk and South Lines, E 26/6/6.—Pitchers Transport, Walpole St. Andrew, new B lie., 1 veh. (3/40). Corn within 10 miles to King's Lynn; sand and gravel ex pit to within three miles; sugar beet within three miles railhead or factory; lime sludge or pulp on return, earth fillings within 10 miles; produce collected within 10 miles for London and Bradford nightly service; potatoes on rail for J. W. Hicks, Ltd., and to London markets.

E 26/6/7.—Knowles (Transport), Ltd., Wimblimston, B var., add 1 veh. (3/4). Sugar beet collected within a radius of six miles for delivery to railhead or factory, pulp on return. Agric, produce and requisites to and from London for W. Brand, Ltd. Lime slndge collected from local sugar beet factories delivered to farms within 15 miles.

E 26/6/8.—F. C. Upton and R. B. Wilson, Mulbarton, B var, of conditions to authorize caravan decoding and parts, G. B.

Mulbarton, B var. of conditions to authorize caravan towing and parts, G.B.

E 26/6/9.—N. B. Sanders, Peterborough, B. var. of conditions to authorize; silica sand 100 miles; building mats, within 50 miles, excluding bricks from Northamptonshire Brickworks and points connected to railway sidings.

Automatic Transmissions Reviewed

THE number of British commercial vehicles fitted with fully or semiautomatic transmissions is not large as vet, but the use of such forms of transmission will undoubtedly increase. Transport managers will, in any case, already be experiencing the growing use of automatic gearboxes in some of the private cars likely to be found in their fleets. Knowledge of automatic transmissions is not great in this country, however, so the publication of any book on this subject is of interest.

Mr. J. G. Giles, B.Sc.(Eng.), M.I.Mech.E., A.M.I.E.E., who has been deputy director of the Motor Industry Research Association since 1955 and has been primarily responsible for the design of an automatic transmission himself, has written an extremely comprehensive book on the subject. It is entitled " Automatic and Fluid Transmissions," published by Odhams Press, Ltd., 96 Long Acre. London, W.C.2, price 45s. Mr. Giles is to be congratulated on the way in which he has managed to compress this vast store of information into a mere 328 pages, particularly as the work includes an introduction to various basic transmission principles and their histories, including mechanical, hydraulic, electric. friction and ratchet drives.

Following this historical survey, the author then deals with a vehicle's power requirements and the relative merits of mechanical and hydraulic transmissions, whilst the subsequent chapter is devoted to mechanical gearbox developments, including an explanatory section on synchromesh mechanisms.

Other subjects dealt with in the book include hydraulic control systems, semiautomatic transmissions-including automatic clutches of all types, and hydraulic couplings and torque converters. Details are then given of all types of American private-car automatic transmissions, also British and European designs, whilst there is a complete chapter devoted to heavyvehicle fully and semi-automatic designs.

The book concludes with a look at possible future developments, including the pros. and cons. of turbine power units and positive-displacement hydrostatic transmissions. The book is a valuable work of reference to all concerned with automotive design, operation and maintenance.-J.F.M.

WESTERN

Applications
W. 27/6 1,—W. Viney, Ltd., Bruton, A var. add 1 veh. (4t 19c). G.g. normally within 300 miles. W. 27/6 2,—W. H. Jakeway and Sons, Ltd., Sandford, A var. add 1 T. (5) e9. Mainly quarry mats, normally within 150 miles. (Veh. now on contract-A fle. with Tarmac Roadstone, Ltd.) W. 27/6 3,—W. Viney, Ltd., Bruton, new B fic. 1 veh. (t. 1c). G.g. within 50 miles. (Veh. at present on C lic.)

METROPOLITAN

Applications

M 29/6/1.—Ernest Valzey, Ltd., S.E.7, A var., S veh. (22t 8c). To be surrendered 3 veh. (7t 12c). Metals, machinery, timber, paint, and g.g. London area and near Home Counties.

M 29/6/2.—F. J. Hope, Bedfont, A var., substitute 1 art. (4t 7c) for 1 art. (5t 16c). G.g. and indivisible loads, G.B.

M 29/6/3.—E. E. Howes (Transport), Ltd., Cheshunt, A var., add 1 art. (6t), to substitute any veh, specified on A or contract-A lic, whilst undergoing repair or overhaul.

M 29/6/4.—R. H. Lavender, Ruislip, A var. add 3 T. (12t 6c). Concrete and filling mats and excavations within 150 miles.

M 29/6/5.—S. I. Pyle, Ltd., Weybridge, A var., add 1 veh. (2t 9c) van. G.g. 150 miles. (urniture removals any distance. (fl granted lic, with facilities "mainty furniture and household effects and small manufacturers' products within 30 miles." granted to S. Shrubb will be surrendered.

ties "mainly furniture and household effects and small manufacturers' products within 30 miles "granted to S. Shrubb will be surrendered.)

M 29/6/6.—T. W. Regan, E.C.I. A var, add 10 art. (140) (refrigerated box). Mainy meat, fruit and ships' stores, London, Liverpool, Manchester, Newcastle, Glasgow, occasionally Aberdeen and Patterhead.

Peterhead. M 29/6/7.—Oil Collection Service, N.8. new B lic., 4 veh. (21t 3c) (tankers). Waste and re-refined oils and spirits within 200 miles. (If granted, contract-A lic. will be surrendered.)

It's a frame-up!



Yes, but a very legitimate 'frame-up' showing the inside story of the famous Arlington maximum capacity body without its panelling. It's the frame that makes light work of your bulkiest transport problems, giving maximum interior capacity with minimum dead weight. Note the bracing arrangement supporting the rear overhang to carry the extra strain when the tailboard is loaded. This is just one of the very many special features of Arlington bodybuilding resulting from forty years of constant development.



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INDIA INTRODUCE TWO NEW GIANTS

See how it's done!

1. SUPREME CASING STRENGTH! India Tyre Engineers, working in conjunction with transport operators and using the most advanced techniques, have produced two entirely new casing designs. These make greatly improved use of the high cord-strength of modern materials—both nylon and rayon tyres being available. Between them these two new India giants are tough enough for most working conditions.

2. SCIENTIFIC TREAD DESIGN. Onto these stronger tyre casings India has built just *two* new tread patterns —so skilfully designed that together India's two new giants give top performance on all kinds of surface.





INDIA SUPER G.25-ON THE ROAD

From Motorway to secondary road, this tyre's star qualities are:

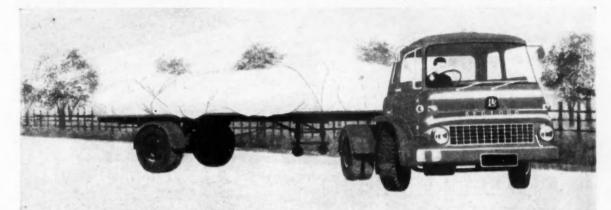
- * more rubber on the tread, for longer life
- * thick kerbing ribs to protect sidewalls from kerb damage and to ensure greater retreadability
- * broad central rib, for smoother riding, easier steering .
- * deep buttress channels cut overheating

INDIA SUPER G.26 ON ROAD AND TRACK

For all on/off-the-road work, this tyre offers:

- * more rubber on the tread, for longer wear
- * powerful traction bars, for extra-powerful grip
- * well-tapered tread grooves cut out stone trapping
- * supreme for rear driving wheels—with G.25 on the front

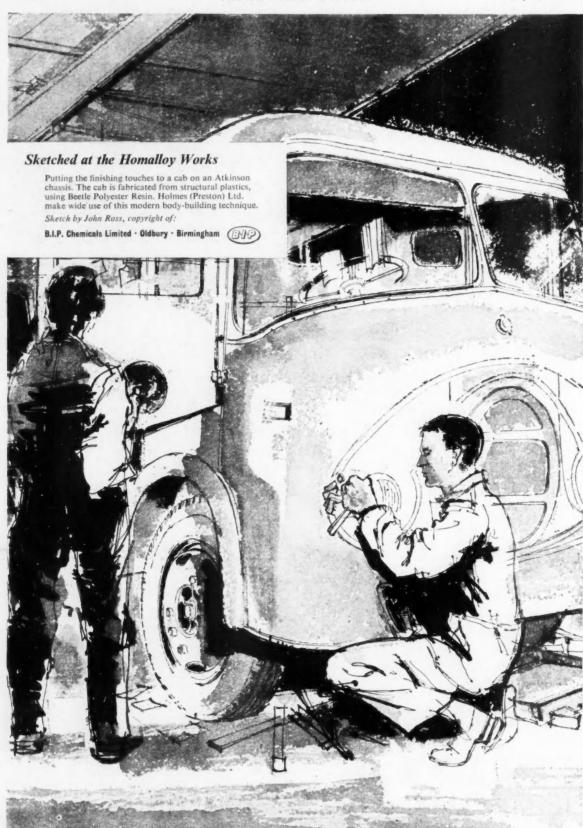
THAT GRIP BETTER, LAST LONGER! PROOF? JUST TWO TYRES DO ALL THESE JOBS!







FIT INDIA RED FLASH G.25 OR G.26 FOR ALL YOUR TRANSPORT NEEDS



Planning for Profit

Fifty Years of Costs

The New Edition of "The Commercial Motor" Tables of Operating Costs Makes Several Allowance for Increases in Users' Expenditure

OMPREHENSIVE tables of operating costs first appeared in The Commercial Motor in 1911. The new issue of the Tables, published on July 5, price 3s. 6d. (4s. postage paid), is therefore a Jubilee Edition.

During these 50 years the road transport industry has experienced many changes and vast expansion. Concurrently, there has been a revolution in the relative values of goods and services. Successive editions of the Tables have incorporated the effects of these changes on the cost of operating commercial vehicles, but the underlying principles have remained the same.

Compared with the Tables published last year, this new edition makes allowance for the alterations in motor vehicle duties announced in the Budget on April 17, 1961. In addition to the resulting higher cost of licences, the other four items of standing costs, namely wages, rent and rates, insurance and interest, have all had to be appreciably increased.

Relative to goods vehicle operation, drivers' wages are based on the minimum rates of remuneration as set out in the current Road Haulage Wages Order R.H.(70), as applicable to vehicles based in the intermediate-Grade I-areas. Whilst there is a statutory obligation on A- and B-licence operators to pay such rates, these are not binding on users of C-licence vehicles. In practice, however, the rate of wages actually paid by ancillary users does not differ substantially.

Correspondingly, the wages paid to drivers of passenger vehicles have been calculated in this new edition of the Tables on the basis of the most recent and relevant national scales.

In both cases additions to the basic minimum remuneration have been made in respect of the amounts which employers contribute to both the new Graduated Pension and National Insurance, and voluntary employers' indemnity insurance. Whilst no longer obligatory, these latter payments replace contributions necessary under the former Workmen's Compensation Act. An appropriate adjustment is also made to both goods and passenger wages to include the cost of holidays with

Increases in the cost of garaging vehicles have also been allowed for in this new edition by the addition of approximately

10 per cent. to the item of rent and rates.

substantial change has been made in the basis for calculating the cost of insuring goods vehicle operation. Because of the increasing disparity between the amount of premium paid by hauliers or ancillary users, the following compromise has been introduced in this new edition so as to avoid undue complication.

THE cost of insuring goods vehicles with a carrying capacity of under 3 tons, as listed in Tables One and Four, continues to be based on the average amount of premium likely to be paid for comprehensive cover on a C-licensed vehicle operating in medium-risk areas. Above that carrying capacity, the amount of premium appropriate to A-licence operation is used to form the basis in calculating the cost of insuring vehicles listed in Tables Two, Three, Five and Six.

It is emphasized that in all cases the cost of insurance as shown in the Tables refers solely to premiums paid in respect of the vehicle. The actual amount payable by individual operators will, of course, vary widely according to the area of location, type of operation, capacity and value of vehicle, the extent of cover required and the accident records of individual operators, to which insurers are giving increasing attention.

Because of the higher rates of interest being paid on capital investment generally, this item of standing cost is now calculated on a basis of a rate of 5 per cent, per annum on the initial outlay of each vehicle.

Expenditure on fuel is a substantial proportion of the total cost of operating a commercial vehicle. It is therefore

particularly important that this item should be as accurately estimated and subsequently recorded as possible. Unfortunately, however, there is a wide range of prices at which fuel can be purchased, and for complete accuracy any estimate of operating costs should include calculations based on the exact amount paid for fuel by the operator concerned. For the purpose of the costs shown in this new edition of the Tables. the price paid for petrol is reckoned at 3s. 10d. per gallon for commercial vehicles and 4s. 7½d. for the cars listed in Table Nine. Oil fuel (derv) is reckoned to cost 3s. 10½d. per gallon. It is assumed that the price of standard-grade petrol purchased in an inner zone is applicable to commercial vehicles, and that operators take advantage of bulk delivery

Individual operators will, however, purchase fuel at various prices due to the combined effect of price zoning and bulk, fleet or agency discounts. To facilitate variations in this important item of operating cost, a ready-reckoner is included in the Tables from which the fuel cost per mile resulting from variations in both price per gallon and rate of consumption can be readily obtained and substituted for the cost shown in

the Tables where appropriate.

HE cost of lubricants remains substantially the same and is intended to allow for both engine oil consumption and sump replacement.

Tyre costs per mile are obtained by dividing the price of a set of tyres specified as standard equipment (excluding the spare) by the estimated mileage life per set appropriate to the particular type of vehicle, under average operating conditions,

As in previous editions, the cost of maintenance as shown in the Tables is intended to cover all work necessary to keep vehicles in a clean, efficient and roadworthy condition. Because washing and light servicing are often performed periodically, for example, weekly, irrespective of variations in weekly mileage, total maintenance cost will not necessarily be directly relative to mileage. As with tyres, the maintenance costs shown represent average figures of users operating standard vehicles under normal conditions. Incidentally, in respect of goods vehicles, it is assumed that standard platform bodies are fitted for vehicles other than those shown in Table One.

Depreciation continues to be calculated on a mileage basis and the estimated life ranges from 75,000 miles for the smallest vehicle to 300,000 miles for the largest. The depreciation cost per mile is obtained by first deducting the equivalent price of the original set of tyres from the initial cost of the vehicle, followed by a further deduction in respect of the estimated residual value. Because of fluctuations in the resale market for commercial vehicles in recent months, these residual amount values are now assessed at 10 per cent. of the initial cost. The remaining balance is then divided by the figure of estimated mileage life appropriate to the particular vehicle, whilst an adjustment is also made, when necessary, to allow for obsolescence resulting from exceptionally low annual mileage or special conditions of operation.

The total operating cost is then obtained by the addition of the five items of both standing and running costs. Because operating costs vary according to mileages run, these are given for a range of average weekly mileages appropriate to the types of vehicle listed in each of the nine Tables. Table One-Goods Vehicles (Rigids), 5 cwt. to 2 tons-the weekly mileages range from 100 to 500, which are considered appropriate to retail distribution and similar work. In Table Three-Goods Vehicles (Rigids), 8 tons to 16 tons-the corresponding range is from 400 to 1,200, as would be operated by vehicles engaged on medium- and long-distance journeys

Operating costs per mile and per week are given and both are applicable for use by hauliers and ancillary users, after

€45 €20 £32

8 18 18

10

Working Costs for Motor Vehicles, February 16, 1911 Fig. 1.

						6-TON PETROL					5-TON PETROL				4-TON PETROL					3-TON PETROL				
	Colu	mn No				11.		1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
(1)	Miles	per da	у					40	60	80	100	40	60	80	100	7	0	60	80	100	40	60	80	10
(2)	Cost	-Chas	sis wit	hout t	yres			€625	-	-	-	€600	-		-	€5	75	_	AND .	-	£550	_	-	-
(3)	Cost	Chas	sis wit	h tyres	and platform			£802		-	-	€762	-	-	-	67	10	-	_	-	£670	-	-	-
(4)	Rubb	er tyr	es (gu	rante	d 10,000 miles)			£160	€240	€320	20 £400	€145	145 £217 £29	€290	€36	2 £1	20	£180	€240	€300	£105	€157	€210	€26
(5)	Inter	est, 5 p	er cer	c			£31		€31	€31	£30	€30	£30	£30	E	29	£29	€29	€29	£27	£27	627	62	
(6)	Depr	eciatio	n, 15 p	er cen	6 's 12 s			£93	€93	£93	€93	€90	€90	€90	€90	E	37	687	€87	£87	€81	€81	€81	€8
(7)	Repa	irs (per	year)						£35	£40	€50	£30	€30	€35	£45	0	25	£30	£35	€40	€25	£30	€30	£3
(8)	Drive	er (35s.	per w	reek)			15	€91	€91	€91	€91	€91	€91	£91	£91	£	91 £91		£91 £91		691	£91	€91	19
(9)	Oils	(per ye	ar)		.,			€10	£10	£12	£12	€10	€10 €10	£12	€12	1	9	€9	£11	£11	£8	£8	£9	€9
(10)	Insur	ances			17.			£15	£15	€15	€15	£15	€15	£15	£15	1	15	€15	£15	£15	£15	€15	£15	£1
(11)	Petro	of at 9d	per s	allon	on		44	£75	£112	£150		€62	€94	€124	€15	1 6	£80 £80	£80	£106	€134	£47	€70	694	£117
(12)	Petro	ol consu	mptio	n (mile			s per gallon)			5	-	-	-	6		-	-	_ 7	7	_		-	8	-
(13)	Load	er (22s.	per w	reek)	- 11 17				-	_	-	- mari	-	_	-	1	-	-	-	-	_	time	-	-
(14)	Coke	(7d. p	er cws	.)							-	-	-	-	_	1						_	-	-
(15)	Coke	consu	mption	n (miles per cwt.)		10	-	-	-	-	-		-	-	-	-	-	-	_	Section 1	_	-	-	
(16)	T	OTAL	YEARL	Y CO	ST			€505	£627	£752	€879	£473	£577	£687	€79	9 64	£429 £		£614 £707		£399	£479	£557	£63
(17)	Cost	per we	ek (ab	out)				£10	£13-5	£15	£17-5	€9-5	£11-5	£13-5	€16	£	-5	£10-5	£12	£14	£8	£9-5	€11	€12
(18)	Cost	per da	(abo	ıt)	50 00			€2	£2-7	£3	£3-5	£2	£2-3	€2.7	€3:	£1	-7	£2-1	€2-4	€2.8	£1-6	£1.9	€2.2	£2:
(19)	Cost	Cost per mile		12-1d.	10-5d.	9d.	8-5d.	11-5d.	9-25d.	8-25d	7.75	1. 10	d.	8-5d.	7-25d.	6-75d.	9-5d.	7-5d.	6-5d.	6d				
(20)	€Cost	per tor	-mile	(loade	d both	ways)		2d.	1-75d.	1-5d.	1-41d.	2-3d.	1-85d	1-65d	1.55	1. 2.	id.	2-1d.	1-8d.	1-7d.	2-85d	2-5d.	2-16d.	2d.
(20) Cost per ton-mile (loaded both ways) (21) Cost per ton-mile (loaded one way)				vi.	3·5d.	3-25d.	2.75d.	2-5d.	4-25d	3-5d.	3d.	2-80	4-	id.	3-75d.	3-2d.	3d.	5-25d.	4-5d.	4d.	3.25			
	-	-														1								
	2-TON PETROL 2-TON PETRO			PETRO	L	1 <u>\$</u> -TO		TON PETROL		14	TON	ON PETROL	TROL	STEA	S-TON STEAM (Gear)	5	S-TON STEAM (Gear)	ST	TON TEAM Chain)	3-TO STE (Ge	MA			
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	3	5 36	37	38	39	40
(1)	40	60	80	100	40	60	80	100	40	60	80	100	40	60	80	100	401	40:	‡ 40	0‡ 40:	40‡	40‡	50	80
(2)	€500	-	-	-	€450	-	-	-	£425	-		-	£400	-	-	-	€58	5 †	€5	60 "	£535	0	£446	£44
(3)	€610	section	-	-	€550	-		-	€510	-	-		£470	-	-	-	€600	0 £66	8 65	75 £63	3 £550	€608	£580	€58
(4)	₹95	£142	£190	€240	£85	£128	£170	£213	€75	£112	£150	£187	£60	€90	£120	£150	-	-	-		-	-	£150	£24
(5)	£25	€25	£25	€25	€22	€22	£22	€22	€21	€21	€21	£21	€20	€20	€20	£20	€29	€37	2 6	28 23	£27	€30	£23	£2
(6)	£75	£75	£75	£75	€66	€66	£66	£66	€63	£63	£63	£63	£60	€60	€60	£60	€87	£96	£8	34 £9	€81	€90	£69	£6
(7)	€25	€25	€30	€30	€20	€20	£25	£25	£18	£20	£20	£22	£15	£18	£20	£20	€50	€60	25	50 £60	€50	£60	£30	£30
(8)	£91	£91	691	€91	£91	£91	£91	€91	£91	£91	£91	£91	£91	£91	€91	£91	€91	€91	£S	1 £9	£91	£91	€91	£9
ALC: UNKNOWN	€8	€8	€9	69	£7	67	68	68	67	€7	€8	€8	£6	£7	£7	€8	£14	€15	£1	4 61	£14	£15	€9	£10

£368 €364 €394 £372 (16) £376 6445 £519 £591 £342 £393 €471 £530 €319 £374 £428 €483 €292 €339 £385 £429 £398 £405 €409 €512 €7-25 €7.5 €9 £10 £11-5 €7 68 €9-5 £10-5 €6-5 £7.5 €8-5 €9.5 £6 £6-5 €7-5 €8-5 €7-25 €8 €8 €7.5 €8 €8 €10 £1-5 €1.8 €2 £2-3 £1-4 €1-6 €1.9 62-1 £1-3 £1.5 £1-7 €1-2 £1-3 €1.5 €1-7 £1-45 €1-45 £1-6 €1.5 £1-6 €1.6 €2 (19) 94. 7-25d. 6d. 5-5d. 8-5d. 6-5d. 5-75d. Sd. 7-75d 6d. 5d. 4.5d 7-25d 5-25d. 4-5d. 4d 8-75d. 9-5d. 8.75d. 9.5d. 9d. 9-5d. 7-75d. 5-75d (20) 2-9d. 2-4d. 2-2d. 4-25d. 3-25d. 2-8d. 2.5d. 5-1d. 4d. 3-3d. 5-8d. 3-2d. 1-45d. 1.75d. 1-2d. 1-8d. 1-2d. 2.6d. 1.9d (21) 5-5d. 4-5d. 4d. 86. 5-5d. 4-2d. 9d. 7d. 5.75d. 10d. 2.5d. 3-25d. 2-1d. 3-2d. 2-1d 3-5d

£13 £13

€13 €13

€47 €62 €78 £27 €40

₹31

12

£76 €92 €13

€13 £13

654 £67 €19 £17 €19 €17 €19 €17 £17

£30 €25 €55 €55 €55

£17

€55 €55 €55 €30 €37

€25

15 12 15 12

* With trailer carrying 3 tons. † With trailer carrying 4 tons. ‡ Steel tyres.

§ The costs per ton-mile loaded both ways are slightly less than double those loaded one way, due to less wear and tear on tyres and less petrol. A set of tyres guaranteed for 10,000 miles will just last a year at 40 miles a day, consequently the underlined figure in the cost of tyres column is the comparative cost of one set. The price of rubber is so variable that quotations for tyres must be asked specially in each case.

Note.—These costs are at the best approximate, but they are very reliable, and will give those interested a good idea of the charges incurred with any

(Continued on page 815)

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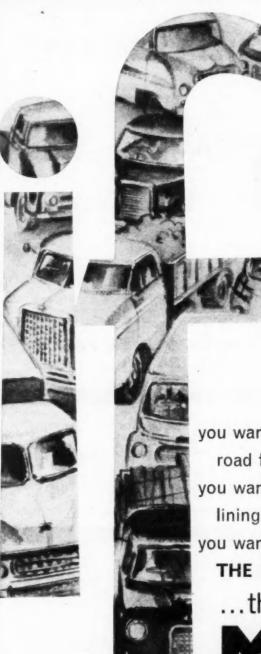
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Photograph by courtesy of D. W. Free & Son, Marlborough, Wilts.

TIPPING-semi-trailer style

appropriate adjustment of insurance costs when necessary. Alternatively, total operating costs can be calculated by the user of the Tables for any period or journey by adding the running cost appropriate to the mileage incurred to the relative cost of the total time involved, which should include both travelling and standing time. To facilitate such calculations, standing costs per hour and per week are shown in the Tables.

Overhead or establishment costs consist of all items of expenditure which cannot be accounted directly to specific vehicles when more than one is operated. Such costs include expenses which can be grouped under the headings of management, office, garage and stores, warehouse, branch depots, sales and publicity, professional services and auxiliary fleet. For the purpose of the Tables, the allocation of establishment costs bears relation, but is not directly proportional, to carrying capacity and is assessed at 20 per cent, of the total operating cost.

Profit margin is intended as an element of cost to cover the risk inevitable in running a business in contrast to the comparative security of paid employment. This is also assessed at 20 per cent, of the total operating cost.

THE minimum charges shown in the Tables result from the addition of the total operating cost, establishment costs and profit margin. Corresponding to the variation in operating costs, a range of differing charges is shown applicable to appropriate mileages, and for this reason no standard charge can be given.

In addition to detailing the minimum charges per mile and per week, provision is made for users of the Tables to calculate charges on a time plus mileage basis by including the relative

charges per hour and per mile.

The whole of the foregoing comments refer to commercial vehicles with petrol or oil engines. Because of the special circumstances, different methods of calculating costs are adopted when dealing with electric vehicles (Table Four) and cars (Table Nine). Because the maintenance of electric vehicles is frequently scheduled on a time rather than mileage basis, this item is shown as a standing cost. Depreciation is similarly allocated and divided into three sub-items appropriate to this class of vehicle with varying rates of depreciation of chassis, body, battery and charger. The cost of electric current is reckoned at 1d, per B.Th.U.

Depreciation is also calculated on a time basis in Table Nine. This is in conformity with the increasing tendency for frequent replacement of cars provided for business purposes. For the purpose of this Table it is assumed that a policy of annual

replacement is adopted to achieve maximum availability and avoid otherwise complex problems of maintaining scattered fleets of staff cars.

As with commercial vehicles, an adjustment has been made in the allowance for residual value as a result of fluctuations in the used car market over the past year, which now range from 17½ to 25 per cent, of the initial cost.

Fig. 2
COMPARISON OF THE OPERATING COSTS OF PETROL-ENGINED
GOODS VEHICLES—1911, 1938 and 1961

Carrying Capacity (tons)	1	1 1	2	3	4	5	6
200 Miles per week:- (pence per mile) 1911 1938 1961	7.25 8.10 21.19	7.75 9.07 21 93		10.31	11.03	11.50 11.56 27.55	13.35
400 Miles per week:- (pence per mile) 1911 1938 1951	4.50 5.06 13.22	5.00 5.72 13.90	5.75 6.31 14.57		7 25 7 29 16 30	0.32	9.00 9.01 19.07

Resulting from a policy of annual replacement, the two items of running costs—maintenance and tyres—shown in Table Nine are not comparable with the corresponding items relative to commercial vehicles. It has been assumed that, when cars are changed annually, the maintenance necessary during the first 12 months of their life will be limited to tasks included in manufacturers' servicing schemes, and the resulting cost has been calculated accordingly. Similarly, it is assumed that when cars are replaced at the end of the year they will still be fitted with the original set of tyres. The tyre costs shown in Table Nine are therefore intended to cover only accidental damage.

With the announcement of the publication of this Jubilee Edition of the Tables, the opportunity is taken to reproduce (Fig. 1) an extract of estimated Working Costs for Motor Vehicles which appeared in *The Commercial Motor* on February 16, 1911. The vehicles shown include both petrol

and steam-engined types.

In Fig. 2 a comparison of the operating cost per mile of petrol-engined goods vehicles for the years 1911, 1938 and 1961 is given. The vehicles detailed have a carrying capacity ranging from one to six tons, averaging either 200 or 400 miles per week.

S.B.

Letters to the Editor

Competitive Spirit Wanted

HERE in Nigeria, the Big Five. and for that matter the leading Continental vehicle manufacturers, are each served by one main agent.

A few years ago this state of affairs was quite satisfactory, but in recent years the number of vehicles in this country has increased out of all proportion, and some agents find it very hard to cope with after-sales service, though, needless to say, the actual selling is something they continue to deal with in a reasonable manner.

But a stage has now been reached when the Big Five should consider giving agencies to additional companies, so that the competitive spirit comes into the picture to the benefit of the customer. The existing agents offer a service which is sometimes good, bad or indifferent, but the customer has no alternative but to accept the grade of service offered by his particular agent, for there is no alternative agent to whom he can turn.

A company here which operates a small fleet of lorries are completely dissatisfied with the service they are given by the sole agents. In the U.K. they would merely turn to another agent for after-sales service. This they cannot do in Nigeria

and it is their intention not to buy any more lorries from the manufacturer concerned, but to replace them over the next two years from a completely new source. The manufacturer, who is going to lose what has been regular repeat business from this company, has only himself to blame, having created a rod for his own back by not setting up an alternative agent in a market that is expanding rapidly and which could so easily cope with this addition.

The Big Five might do well to consider that the time is ripe to give the paying customer some of the after-sales service which at present he only reads about in advertisements, and which is at a far from satisfactory level in Nigeria. When the agents are facing some direct competition for a change, from another company marketing the same vehicles, then there might be an end to the sort of situation which sees a store counter clerk scrutinizing an order for a simple part, only to utter the curt and oft-heard words "No stock," thus necessitating a long and often futile search of the local market and where, even if successful, a much higher price will have to be paid for the part in question.

Lagos. Nigeria.

" SUFFERER."

How to Write Off £112.7m.

A Special Correspondent Looks at the B.T.C. Report and Accounts

IN 1960, British Road Services earned £3m. more than in 1959, but their net receipts were little more than half those of the previous year, because working expenses rose by over £4\mu. This is the verdict of the British Transport Commission's annual report and accounts for the year ended December 31, last. The Tilling and Scottish bus companies returned a net surplus of £6.5m., which was £0.1m. lower than last year. London buses earned £5.4m. (£4m. last year).

It was a year in which the Commission as a whole recorded a total deficit of £100.9m. (in 1959 it was £73.8m.). The British Railways deficit was a staggering £112.7m.—easily their "record" year. The working deficit was £67.7m.

The Commission's report more or less shrugs it off, however. A summary of the accounts circulated to the Press, is smugly headed "Transport Commission Deficit as Forecast." The report itself writes off the railways' mammoth red entry thuswise: "The benefits achieved from technical modernization, though well up to expectations, have thus been masked and heavily outweighed by the decline in heavy traffics coupled with the trends in wages and the weaknesses of the freight market."

The Commission still stand firmly by their modernization plan and also say: "We remain convinced that British Railways should achieve an operating surplus within a few years."

"Whatever the new forms of structure introduced into the nationalized transport undertakings in future," says the report, "the fundamental problem will remain of reconciling the growth and freedom of private transport with the need to preserve public services which are healthy and efficient."

So much for the railways and their eternal promises of "jam tomorrow." The fact that they lost an extra £25.7m. (the difference between this year's working deficit and that of 1959) apparently does not matter.

BRITISH ROAD SERVICES carried their highest tonnage (17.4m. tons) since the halcyon days of 1955 and earlier. They operated fewer vehicle miles (294.7m., compared with 296.1m. in 1959), and consumed more derv (25.9m. gals., compared with 24.9m, last year) but less petrol (1.6m. gals., compared with 2.7m, gals, in 1959).

The fuel consumption follows the pattern of fleet changes. At the start of 1960 B.R.S. had 13,226 diesel-engined vehicles and 2,685 petrol-powered ones. By the end of the year the totals were 14,236 and 1,948. This represented an overall increase of 273 vehicles and articulated units during the year. The number of additional trailers rose from 5,781 to 6,422. Total tonnage capacity rose from 192,924 to 203,179.

Gross receipts increased by £3m. to £55.5m., mostly through increased general haulage work. Working expenses rose to £53.8m. (£49.5m. last year) mainly because of the effect of wage awards and an extra £1.5m, which had to be paid for hiring and sub-contracting. It is said that higher working costs arose also from increased vehicle mileage, whereas the statistics, as quoted just now, say otherwise.

Regular parcels and general traffic, say B.R.S., was lost to competitors because of the strike over the 30 m.p.h. speed limit, and recovery was difficult. "Previous rate levels were depressed," admits their report. Even the rates rise in private enterprise haulage last November, so far as general haulage was concerned, was "gradual and selective." All in all, one gets the feeling that B.R.S. would like to put a lot more rates up. But then, no doubt, so would everybody—if they could!

Over 900,000 tons of coal were sub-contracted by B.R.S. to private hauliers in 1960; the operation continued this year. One unusual sidelight—B.R.S. carried a greater proportion of its 1960 tonnage for local delivery than hitherto. This was "less remunerative," the report wryly points out. Proof of B.R.S. alertness—over £½m. was spent in 1960 on vehicles and equipment to meet the special requirements of customers.

A parcels pointer—roughly 80 per cent of the total parcels tonnage passing over 250 miles was trunked by rail in containers. B.R.S. (Contracts), Ltd., added 230 vehicles to their fleet. These were the net receipts of the individual companies:

British Road Services, Ltd., £397,012; B.R.S. (Contracts). Ltd., £428,005; B.R.S. (Parcels), Ltd., £136,533; and B.R.S. (Pickfords), Ltd., £985,714. B.R.S. (Meat Haulage), Ltd., had a net deficit of £166,325.

That, briefly, is the story of how B.R.S. had a net surplus of £1.8m. in 1960, compared with one of £3.2m. a year earlier and despite earning £3m. more in 1960. Incidentally, should B.R.S. ever come on the market, their fixed assets and goodwill are given (net) as £48,548,011, compared with £47.1m.

The TILLING AND SCOTTISH BUS GROUPS had an "as you were year" according to the accountants. It is unsatisfactory to have so many companies, with fluctuating fortunes. lumped thus together, but anyone with enough shillings and plenty of time can go along to Bush House, in London, and carry out his own company-by-company breakdown of the Tilling concerns. The rest can be found in Edinburgh.

Nevertheless, united they had net receipts of £6.5m. which was only £0.1m. below 1959. A measure of the effectiveness of bus companies' economy measures can be gained when, against the £1.5m. rise in working expenses, is placed the £2.2m. increase in the 1960 wage bill. The companies managed to "win back" £0.7m.—a fine effort!

Most of the extra receipts came from the Tilling Group, who grossed £41.165,696, as against £39.965,274 in 1959. The Scottish Group grossed £21.058,456 in 1960, compared with £20.879,176 the previous year. The Tilling Group, at 359.9m. miles, operated 93,000 more service miles than in 1959; empty mileage, at 8,040,000, rose by 128,000. The Scottish Group (177.2m. miles) ran 74,000 fewer in service, but 14,000 more empty (3,919,000). The Tilling increased mileage was largely tours and private hire.

Single-deckers operated by the two groups returned better fuel consumptions (Tilling 0.05, Scottish 0.03 m.p.g.) than in 1959, but double-deckers (Tilling 0.10, Scottish 0.04 m.p.g.) returned worse figures than the previous year. The figures were: single-deck (Tilling) 14.60 (Scottish) 13.11; double-deck (Tilling) 12.32 (Scottish) 10.47.

At the end of 1960 the Tilling and Scottish Groups owned (combined) 14,023 vehicles—33 fewer than in 1959.

LONDON TRANSPORT road services had a good year, contributing £5.4m, (an increase of £1.4m) to the Executive's overall net receipts of £7.9m. In 1960 they earned £56.9m. on their buses, compared with £55.1m. in 1959, £48.6m. in 1958, and £59.3m. in 1957. Those figures are the measure of how strike, staff shortages and private transport have affected London's buses.

Working expenses rose by £0.4m., so that the increased passenger revenue oustripped it, but there was a decline in short distance journeys, which must surely be laid at the door of staff shortages. They started the year with 34.213 platform and 2,727 supervisory staff, recruited 6,787 and 3 respectively, but still ended the year worse off at 33,170 and 2,592. Overall, the Tilling and Scottish companies managed to find slightly more than they lost, ending the year fractionally better, with 38,778 platform and 1,556 supervisory staff.

London Transport's fleet of passenger vehicles available for service was 7,287 at the end of the year, compared with 6,949 at the beginning. In all, the Executive still owns 818 single-deckers, 6,925 double-deckers and 723 trolley buses. Their average fuel consumption decreased by 0.06 m.p.g. during 1960 to 9.15 on central buses, and by 0.04 m.p.g. to 10.27 on the country fleet.

The RAILWAY COLLECTION AND DELIVERY flect, still the largest in the country (34,570 rigids, artics, trailers and semi-trailers with a tonnage capacity of 134,971), carried 7.8 per cent, more freight and 3.9 per cent, more parcels. The totals, respectively, were 1,937,000 tons and 6,829,000 tons. They have only twice owned more vehicles, in 1957 (35,056) and 1958 (34,631).

During the year their working expenses were £22.133.290 compared with £19.611.954 in 1959.

Mr Walton (crisp, crusty loaves fresh-baked this morning!)

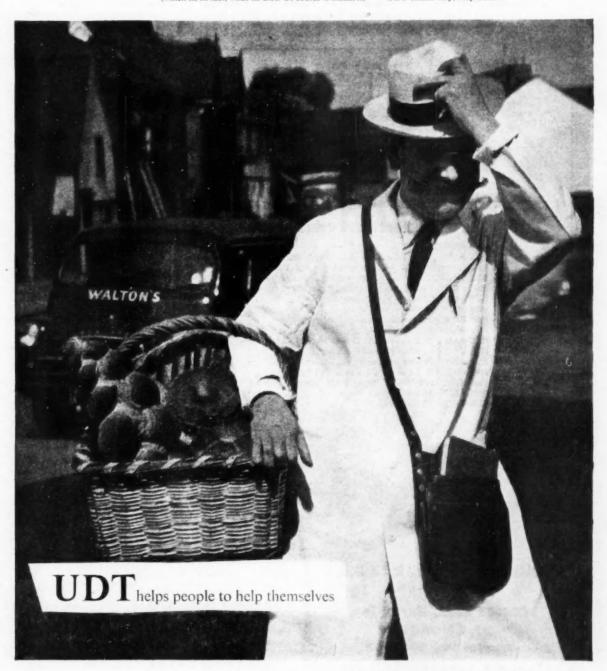
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FORD Thames 5 cwt. Van		£245
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		£145
THE PARTY OF THE P		400
		£225
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CLASSIFIED ADVERTISEMENTS INDEX TO HEADINGS

USED GOODS VEHICLES FOR SALE	Dane	45
NEW GOODS VEHICLES FOR SALE	, age	59
USED PASSENGER VEHICLES FOR	-15	
SALE AND WANTED	27	63
NEW PASSENGER VEHICLES FOR SALE		68
MISCELLANEOUS VEHICLES FOR SALE		
AND WANTED	71	68
SPARE PARTS AND SUPPLIES MISCELLANEOUS ADVERTISEMENTS	85	71
PHISCELLAINEOUS ADVENTISEMENTS.		76

Used Goods Vehicles (contd.)

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BARGAIN! Must be cleared at once, 1957 DODDISE Sen-yd. tipper; R6 engine, 2-speed Eaton axie; condition, 2495. Demonstration, arranged, common condition, 2495. Demonstration, arranged, common condition, 2495. Moscley Rd., Birmingham, 12 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1910-69 1

DODGE 1955 7-ton model 146AR6 18-ft. 6-in. drop-side lorry, modified engine, 2-speed axle, £350, ROWBERRY'S GARAGE, Oxbill Rd., Handsworth, Birmingham, Northern 3539.

MAIN DODGE DISTRIBUTORS.

FERRARIS OF CRICKLEWOOD. LID.

200-220 CRICKLEWOOD BROADWAY, N.W.2. Gladsione 2234-5-6-7.

ALL models from stock or early delivery

COMPLETE spares service for all types. DERKINS diesel, every facility

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TWO DODGE 3165AZ 6-wheel tippers. 19 ft. long by 4-ft. coal bodies. York trailing axle. Edbro tipping sear, a genuine 600 miles only, £450 under list, price.

KAND F. (COMMERCIALS), LTD., Coleshill House, Albertsone, Phone, Atherstone 2481-2-3, 916-411

F.R.F.

1959 E.R.F. tractor unit, Gardner engine, 5th-wheel coupling, excellent condition.

CENTRAL GARAGE (UPPINGHAM), LTD., Market Place, Uppingham, Phone, Uppingham 3296-7-8, 916-165

1954 E.R.F. diesel 8-wheeler, good condition, £975 WALTER WALKER (ECCLESFIELD), LTD., Eccles field, near Sheffield. Phone, Ecclesfield 3667, 916-273

E.R.F. 7-ton 18-ft, platform lorry, SLW engine,
5-speed gearbox, £195 or H.P. arranged.
HENRY EATON, LTD, 107 Palmerston St., Ancoats,
Manchester Phone, Ardwick 3146. 916-283 1956 E.R.F. 4-wheeler, SLW/K, 18-ft. drop-sided body, trailer brake equipment, Leggett. Dorking

FODEN

TWO 1948 FODEN 18-ft, flat hodies, good tyres, 4LW, C-licence operator, flat front cabs, smart condition, 325. Edware 2572, 9(6-23)

1958 FODEN 8-wheeler, 24-ft. triple drop-side body, 6LW. 12-speed box (booster), double drive, 1951 FODEN 8-wheeler, 24-ft, alloy body, 6LW. In 1951 very good condition, £1.100. TOHN HUDSON, Don, aster Rd. Bawtry, Yorks, Phone Bawtry, 362, 456, 457.

1953 8-wheel, 6LW, 40 x 8 tyres, double drive, 24-ft. flat, in very good condition, £600. 4 Carruthers St., Liverpool. 3. Central 2047.

FORD THAMES AND FORDSON

1959 FORD 7-cwt van, one owner, low mileage, extras, excellent condition, £315.

DUTTOCKS, LTD., High St., Guildford. Phone 5391, 916-115

CORDSON Trader. 1958. 6D. steel-hodied tipper, heavy duty cauimment. £595.
CORDSON Trader. 1958. 4D. long-wheelbase truck, remainted £425.
CORDSON Trader. 1959. 4D. long-wheelbase truck, MIDLAND VEHICLE AGENCY, 560 Coventry Rd., Misrminsham, 10. Victoria 6040; evenings 8744, 916-78

7-TON 6-yd. fixed-side FORD and Bedford tippers from

NORMAN REEVES (MOTORS). I TD.,

215-218 HIGH STREET

UXBRIDGE. MIDDLESEX. Uxbridge 33444.

C. F. M. MAY, LTD. Sandfields, Port Talbot. Phone. Port Talbot. 2112.
1959 Trader, 6 x 2 Eaton 14-cu.-yd., Pilot tipper. vehicle reconditioned, new tyres. £1.150.

§16-13

1958 FORD 4-ton diesel Luton van. 750 cu. ft., 1960 FORD 15-cwt. Luton van. one owner, £525. 258 WATFORD WAY, Hendon, N.W.4. Sunnyhill D

Used Goods Vehicles (contd.)

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FROM

G.T.C. COMMERCIALS. LTD.

600 CU-FT. 1956 FORD 4D diesel, 3-ton Litton van outstanding condition, E275.
800 CU-FT. 1957 FORD 4D diesel, 3-4-ton boxvans. 600 CU-FT. 1957 FORD 4D diesel, 3-4-ton boxvans. 600 CU-FT. 1952 FORD 4D diesel Litton van, £110.

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1960 Thames Trader tippers. Hydrovac brakes, short and medium wheelbase, choice of four.
1960 Competer Thames Trader Trader Trader brakes, twin ram gear. 4,000 miles only, mer new Glex price approximately £1,7500, our price £1,050.
1960 Thames Trader artic, unit. fifth wheel coupling and 2ft. York 12-ton trailer, very clean.
1960 Thames Trader 7-ton long-wheelbase truck.
1961 Thames Trader Semmell artic. unit, 2-speed axle and 25-ft. York trailer (Scammell coupling).
1962 Thames Trader, 7-ton short-wheelbase trucks axle and 25-ft. York trailer (Scammell coupling).
1953 State Trader, 7-ton long-wheelbase trucks one owner from new, £200.
28 BOW RD. London, £3, Advance 5242-3, 130 yd, from Bow Rd. Tube Station.)

TRADER 1960 (June) 21-ft. ptatform truck. County third axle, flashers, heater, loading board, as new. TRADER -ton. 1960, 18-ft. body, drop side, as new, D. EASTWOOD (COMMERCIALS), 27 Aston Rd. North, Birmingham, 6. Phone, Ast 3467. 916-148 1958 Thames Trader 6-yd. tipper, £625; and a 1955 Fordson 5-yd. tipper, in excellent condition, diesel, £325. Highway Coaches, St. Albans 54242.

Lamberts of Kingston, Ltd.

MAIN FORD DISTRIBUTORS TRADER 1959 6-cu.-yd. tipper, fully reconditioned w new steel body and tipping gear, £995 o.n.o.

140 A LONDON RD., Kingston-on-Thames, Surrey, Phone. Kingston 7700 (20 lines), or after hours

1959 Thames Trader, 7-ton Anthony holst tipper gear, choice of two, guaranteed, £725. Arnold 916-131

1958 Trader 6 yd. tipper, 6-cylinder petrol engine, very lew milenge, £456. Edgware 2572. 916-226

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55-60 BROAD STREET. SHEFFIELD. Phone 20311.

OFFER:-

FORD Thames diesel 30-cwt, drop-side truck (June, 1955), excellent (yres, heater, low nominal mileage first-class condition, £195 C

1960 Thames Trader 7-ton short-wheelbase Anthony hoist, drop-side steel tipper, 9,00 x 20 tyres.
1959 50 Thames Trader 6D tractor, S.A.E. coupling, very clean C745, or terms arranged.
1956 FORD 4D 4-ton short-wheelbase hydraulic tipper, 2270, or terms arranged.
1954 FORD 4D 3-ton drop-side truck, 6250.

HENRY EATON, LTD., 107 Palmerston St., Ancoats, Manchester, Phone, Ardwick 3146. 916-288

GORDON KING MOTORS. LTD. FORD AND THAMES DEALERS.

TRADER 4D diesel 4-ton christis, fitted with 1,250-cx-works for early delivery. £1,220. chassis, fitted with TRADER 4D diesel 4-ton low-frame chassis, fitted with 1,250-c.-t. bady, as above, early delivery from stock.

1955 Thames 4D diesel van, recent reconditioned entine, price £195.
1951 Thames 1,350-cu.-ft, pantechnicon, Baico chassis extension, Perkins P6 diesel engine, price £135. MITCHAM LANE, S.W.16. Streatham 3133-4.

1951 8-wheel double-drive 24-ft. flat. 6LW, good running order, £385. J. R. Swanston, Colmbrook 2741, Bucks. 916-368

1959 60 FORD 5-cwt. Thames van. excellent con-Rd., N.W.6. Willesden 0016-8. Motors. Cavendish ONE 5-ton 6D long-wheelbase truck, 1959, good con-dition. 958 5-ton Trader, 4-cylinder diesel, very good con-

Used Goods Vehicles (contd.)

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FORD MAIN DEALERS.

CHIGWELL ROAD, WOODFORD GREEN, Wanstead 6633

1960 Trader 6-wheel double drive. 12-ft. platform, nower steering air brakes, etc., etc., £1,875.
1960 Trader, 8-ca, yd. tipper, Edbro front ram, excellent condition, £950.

GOOD selections of Thames Trader. 5- and 7-ton trucks and platforms, from £400. 916-535

TRADER 6D. 1960 medium-wheelbase steel body.

double ram. £875. Garth Mill Ffynnongroew, near
Holywell, N. Wales. Phone, Mostyn 288. 916-x5574 1956 30-cwt, 4D truck, with bolster, immaculate condition, 18,000 miles only, one owner, £210.

T. C. HARRISON. LTD.

MAIN FORD DEALERS, LONDON ROAD. SHEFFIELD.

1958 7-ton Thames Trader fixed-side, steel-bodied tipper, £750.
1958 7-ton Thames Trader fixed-side steel-bodied tipper, £650.

NEW.

THAMES Trade, 7-ton 108-in, drop-side and fixed-side tippers, ex-stock.
THAMES Traders, 138-in, and 160-in, chassis-cabs, ex-stock.

5-, 7-, 12 and 15-cwt, vans, early delivery.
EDBRO 4LNX tipping gears, ex-stock.

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SHEFFIELD ROAD. Phone 77296.

916-483

JEW Trader 75, 18-ft, alloy platform.

NEW Trader 5-ton, 152-in. wheelbase, 4D. low frame, chassis-cab.

1960 6D Trader Primrose 6-wheeler chassis-cab, £800.

1960 6D Trader 12-ton articulated outfit. S.A.E.
1960 6D Trader 12-ton articulated outfit. S.A.E.
1960 6D Trader standard 7-yd. steet tipper, 26,000
mites, £075.
1950 6D Trader 5-ton 16-ft. 6-in. drop-siders, encower, clean, £500 each.
1958 6D Trader 5-ton 16-ft. 6-in. drop-siders, one owner, clean, £500 each.
1958 6D Trader standard 7-yd. steet tipper, one owner. £450.
1956 4D Trader 16-ft. drop-sider, 25 m.p.a., £285.

1952 ET7 16-ft. steel drop-sider, reconditioned P6.
OWEST H.P., exchanges. Open Sunday mornings.

JOHN JORDAN, official FORD retailers. Manor Garage. Great North Rd. Sandy, Beds. Phone 271. 916-547

Ford Thames and Fordson Wanted

USED Thames 4D trucks and Lutons. 1957-60. Ferraris of Cricklewood, Ltd., 200-220 Cricklewood Broadway, N.W.: Gladstone 2234-5-6-7. 916-232

WANTED FORD 4D vans and Perkins, all capacities from 1955 onwards. Chandlers Motors, Ltd., 71 Greenwich South St., London, S.E.10. Gre 2033-4.

GUY

GUY Invincibles, 1958, one single drive, one double drive, 25-ft, platform, Gardner engines, syres and brakes good, exchange if prefered, one or both. Robert Whinney, Ltd., Sherburn Terrace, Consett, 50. Durham

1953 GUY Vixen 3-4-ton platform trucks, ex brewer wonderfully well kept, tyres good, very suitable coal haulage, each £145. W.E.M. Motors, \$66-50 kingston Rd., S.W.20. Phone, Milden 5342.

KARRIER

1960 Bantam 2-ton, petrol, 10-ft. 2-in, wheel-base drop-side truck, 12 ft. 6 in, by 6 ft. 6 in, low mileage, very clean condition
QUINTON AND THOMPSON, LTD., Lancaster Rd.,
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Karrier Wanted

WANTED urgently, good used KARRIER Bantam or similar low-platform vehicle. Offers to Robert Eden and Co., 15 North Audley St. London, W.I. Mayfair 916-110

KARRIER wanted. Karrier Bantam 2-ton truck, van on rractor, or cab and chassis, three required, 1954 on. Quinton and Thompson, Ltd., Lancaster Uxbridge, Uxbridge 38617.

LAND ROVER

GOOD selection of used LAND ROVERS always in Stock.
COOMS COMMERCIALS (GUILDFORD). LTD...
Portsmouth Rd., Guildford, Surrey. Phone, Phone

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OCTOPUS, 1951, double drive, good tyres, ready for work, £445 for quick sale, F.T.S., Ltd., Bridge Works, Thorney 371, Nr. Peterborough. 917-6174

Used Goods Vehicles (contd.)

L EYLAND Comet forward-control model, E.C.O. S2.1R, regulatered November, 1955, fitted 16-ft, wood platform body, in really excellent condition all round, £425. Further details from R. Cripps and Co., Ltd., Abbey Bridge, Lenton, Nottingham. Phone 71167.

1952 LEYLAND Octopus 8-wheeler, 24-ft, drap-side, excellent condition, £950. Upminster 5350.

LEYLAND Comet tractor unit, very good tyres, clean, smart vehicle, August, 1949, £225. Edgware 2572. 916-224

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AUTHORIZED DEALERS.

EARLY delivery of new LEYLAND Comets and Super Comets. our advertisement under Used Goods Vehicles

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1954 LEYLAND Comet short-wheelbase hydraulic tipper, alloy body, 2-speed axle, £425, or terms HENRY EATON, LTD., 107 Palmerston St., Ancoats, Manchester, Phone. Ardwick 3146. 916-282

1955. November, LEYLAND Steer long-wheelba fitted stabilizer, air brakes, alloy body, excellent co dition, 1985. A. and L. Vehicle Supply Co., 27-41 Gras Lane, Salford, 3. Phone, Manchester Blackftars 1511.

1950 Comet 75, long-wheelbase platform, £170.

1955 Comet long-wheelbase platform, E550.
1955 Comet long-wheelbase double-drop-side tipper, E550.
1947 Colopus, long-wheelbase platform and drop-side.
1948 Choice of four, from £275
1948 Choice of four, from £275
1949 Choice of four from

1955 LEYLAND Comet forward-control platform
Truck, good condition, £325.
CAPITAL MOTOR CO., LTD., Remington St., City
Rd., N.I. (Near Angel) Clerkenwell 7456, 916-351

1960 Rebuilt LEYLAND Beaver, first registered 1952, Iong-wheelbase artic, unit, 600 ensine, 5 speed box and auxiliary gearbox, latest-type cab, ready at week-end, 6290; can be supplied with single or landem axic pole carriage. Amos, Forge Garage. Phone, Ludlow 329, 1916-3160

1950 LEYLAND 8-wheeler, double drive, 600 engine. PIRBRIGHT GARAGE, Pirbright Rd., S.W.I8. Vandyke 6188.

WHALEBONE MOTORS, LTD.,

1957 LEYLAND Steer, 600 engine, air brakes, 23-ft. EYLAND 6-wheeler, 600 engine, double drive, boxvan EYLAND 8-wheeler, 600 engine, double drive, platform body, late-type cab. EYLAND Comet, 90 engine, cattle container body.

EYLAND 4-wheeler, 600 engine, boxvan body.

WHALEBONE MOTORS, LTD.,

239-241 HIGH ROAD, CHADWELL HEATH, ESSEX. Phone, Seven Kines 5282.

916-428

EYLAND Octopus 1960 long-wheelbase tipper, as new EYLAND Steer, 1956, 600 engine, platform body, air brakes and 4-wheeled Dyson trailers.

CENTRAL GARÁCE, Barnsley Rd., South Elmsall, near Pontefract. Phone. South Elmsall 276-7-8. 916-491

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WANTED, several used LEYLAND Comet forward-control Scammell tractor units. High Rd., Ponders End. Enfeld, Middlesex. Howard 1266. 916-97

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Ex-ARMY MORRIS short-whitelbase, 4 x 4, short drop-side body (perfect condition). G. W. Lawes, Well End, Friday Bridge, Wisbeck. Phone, F. Bridge 272.

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MORRIS AND MORRIS-COMMERCIAL RETAIL DEALERS.

1955, July 1-ton LD van (petrol), one owner, £185. 1957, October, 3-ton drop-side truck, heater, F.C. diesel, one owner, £335.

November, 30-cwt, LD van (diesel), coach panelled 8,000 miles, one owner, new engine.

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1960 MORRIS-COMMERCIAL JB 10-cwt, van, 8,000 miles only on very light work, almost as new, 2-tone finish, £365.

1960 MORRIS-COMMERCIAL FG 2-ton diesel dropside tsuck, 5,000 miles only, £685.

SUTTON PARK RD., Seaford. Phone 3264.

Used Goods Vehicles (contd.)

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1960 7-ton short-wheelbase tipper, 9.00 x 20 tyres, Autolift, panelled drop-side wood body, £975.
2-TON F.G. series coachbuilt capacity van, 504 cu. ft., poperally built for demonstration and exhibition purposes only, milicage under 400, £975.

APPLEYARD OF LEEDS. LTD.

MORRIS-COMMERCIAL DISTRIBUTORS. NORTH STREET, LEEDS, 7. Phone 32731.

EX-W.D. 4 x 4 tractors with winch, from £100 each. Cundey and Stewart, Ltd., Alfreton, Derbyshire, 916-802

SCAMMELL

PARADISE MOTORS, Geldard Rd., Birstall, York-shire. Phone, Morley 1029. 20-ton SCAMMELLS and 25-ton low-loader trailers, new cab and latest-type bonnets and wings.

SPARSHATTS, Millbrook, have Scammell mechanical borners and wines.

SPARSHATTS, Millbrook, have Scammell mechanical horse, trailets, Handyman tractor units, Routeman raid 8-wheelers, early deliveries all models, also specialized bodywork, timens, trucks, flats, erlineared bodies, van. etc. Phone, Southampton 72:90-7.

A Number of good SCAMMELI, tractor units in stock 10:484-1948, with or without trailets, flats, and low 10:484-1948, with or without trailets, flats, and low 10:484-1948, with or State 10

SEDDON

NEWPORT MOTOR SERVICE, East Usk Rd., New Phone 59441.
SEDDON distributors for Monmouthshire.

1956 SEDDON Mk. SL 16-ft. 6-in. drop-side truck.

6450. Cottee and Edwards, Nottingham 46674. 9:6-63 1955 SEDDON 7-ton platform truck, diesel, 18-ft. body, £245. Barnet 1066, 9 a.m. to 6 p.m. 916-178

1957 SEDDON Mr. 15 73-ton ions-wheelbase plat-form bory 555 or terms arranged to the state of t

SENTINEL

SENTINEL 7-ton long-wheelbase platform forcy, reason-able price and part-exchange arranged. HENRY EATON, LTD., 107 Palmerston St., Ancoats, Hanchester, Phone, Ardwick 3146. 916-284

STANDARD

1960 STANDARD Atlas van, side-loader door, exputtocks, LTD., High St., Guildford. Phone 5391.

1957 STANDARD Vanguard diesel van, very good tyres, £195. Edgware 2555.

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EX-W.D. 4 x 4 trucks, good selection. Cundey and Stewart, Ltd., Alfreton, Derbyshire. 916-803 THORNYCROFT long-wheelbase 4-wheel Trusty for sale, large diesel engine and air brakes, £350. Harford Engineering Co., Ltd., Whiting Rd., Norwich. 916-43

Marston Motor Co., Ltd.,

SEVEN SISTERS ROAD, TOTTENHAM, LONDON, N.15.

Phone, Stamford Hill 8000

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FOR IMMEDIATE DELIVERY.

NEW long-wheelbase Mastiff 14-ton G.V.W. 4-wheel 916-218

1955, December, THORNYCROFT Sturdy Star box-HENRY EATON, LTD., 107 Palmerston St., Ancoats, Manchester, Phone, Ardwick 3146. 916-286

1900 No. 39, fitted with brewer's dray body, completely overhauled and repainted, boiler retuded and in first-class condition, steamed over 500 miles in 1959; may be seen under steam by appointment. Offers to John Crawley, Field House, Turvey, near Bedford, Beds.

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FIVE 1985 TROJANS, P3 Perkins, large capacity box-van bodies, ex fleet of large biscuit manufacturer, all in excellent condition, £165 each. Edgware 2555.

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916-42 TROJAN diesel personnel wagon, good condition, low mileage. 12 Kersley St., Oldham. 916-x5449

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Commer ED.V., Austin and Bedford vans, regularly available ex contract, lightly used, late models, regularly maintained, all well above-average condition, from £165.

Generous H.P. terms and exchange prices. Early delivery on all new Commer and Karrier models. Eastensive and parts departments.

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1961 BEDFORD 25-cwt. petrol Spurling van, heater, owner, as new 2065.

1960 FORDSON Thames Trader 7-ton diesel long-wheelbase Eddro steel-bodied drop-side (tipper, 9.00 x 20 tyres, cab heater, low mileage, excellent conductor, 1970.

dition, £1,070.

1960 BEDFORD 7-ton ex long chassis-cab, 300-cu.-in.

21,000 miles, £1,050.

NEW 18-ft. drop-side body available at extra cost.

1956, November, BEDFORD 10-12-ton articulated tractor unit, diesel, Scammell coupling, and 1954 ESB PORD 5-ton petrol, Jennings cattle truck, 1954 EBFORD 7-ton diesel, Drew cattle truck, 1938, November, E.R.F. 10-ton drop-side truck, 2125, 1958, November, 2125, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 1958, 19

ISLES, LTD.

LEYLAND - ALBION SALES.

1960 ALBION Claymore Model CLiL, timber platanderfloor engine, 8.25 x 20 tyres, ref. v.23, 1.10
1959 THAMES Trader, 18-ft, timber truck body
to tyres, ref. v.4, 2725,
1958 THAMES Trader, 18-ft, timber truck body
to tyres, ref. v.4, 2725,
1958 THAMES Trader, 18-ft, timber flat platform
by THAMES Trader, 18-ft, timber flat platform
tel. v.2, 2675,
1958 THAMES Trader, 18-ft, timber flat platform
tel. v.2, 2675,
1958 THAMES Trader, 18-ft, timber flat platform
tel. v.2, 2675,
1958 THAMES Trader, 18-ft, timber flat platform
tel. v.2, 2675,
1958 THAMES Trader, 18-ft, timber flat platform
tel. v.2, 2675,
1958 THAMES Trader, 18-ft, timber flat platform

ref. V.2. £675.

1956 by 7 ft. 6 in., Commer 2-stroke diesel engine, 8.25 x 20 jpres, ref. V.4. £160.

1954 ALBON Chieftsin, 18-ft. timber flat platform V.X. £550.

1954 ATKINSON 6-wheeler, 24-ft, flat platform body, Gardner 5LW engine, 9.00 x 20 tyres,

1953 bLEYLAND Comet ECO2, timber platform 1953 bLEYLAND Comet ECO2, timber platform cattle containers 200 x 20 yres, ref. V.5, £450, 1953 bleeper 200 x 200 x 20 yres, ref. V.5, £450, 200 x 200 yres, ref. V.5, £450, 610, by 741, body with double strop sides, 8.25 x 20 tyres, ref. V.10, £70.

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GUY DISTRIBUTORS FOR SOUTH WALES, HEREFORD AND GLOUCESTERSHIRE.

1960 GUY Invincible 8-wheeler, Leyland 600 engine, drop-side body, 9.00 z. 20 Michelin X tyres, 2.500 miles. 1 1900 below list at £3,250. 1900 l

1956 ALBION Reiver 6-wheeler, 18500 2-speed axie, 917-6197

BIRMINGHAM COMMERCIAL OFFER:-

JEW 9-ton DODGE trucks.

NEW MORRIS 3-cwt. Luton vans.

1960 MORRIS 6-ton short-wheelbase tipper, as now.

1960 States of the short-wheelbase tipper. 88 new.
1953 - FODEN 8-wheelers.
1953 E.R.F. 6LW platform.
1960 3 standing horse box on Bedford 4-ton chassis.
1956 Trader 4D Luton 1,100 cu, ft.
1952 FODEN tippers, 5LW.

BIRMINGHAM COMMERCIAL MOTORS,

LTD.

WRIGHT STREET, BIRMINGHAM, 10. Phone. Victoria 0437.

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New Addition wheelbase 1960, May, AUSTIN 702 diesel with 7-cut-yd. tipping body, also fitted with 9.00 x 20 tyres, cab best and flashers, 25.000 miles, £1.09c, 20 tyres, cab with K6 diesel engine, £275. CRAWLEY 25666 (FIVE LINES). 916-459

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1958 truck, standard body.
1958 truck
1958 truck
1952 truck
1952 truck £135.
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1958 BEDFORD long-wheelbase platform truck, fitted with new 15-ft hody, high-loading board, low 1951 beautiful truck in the property lested.
1953 BEDFORD A-type platform trucks, choice of the platform truck, discovered by the platform truck in the platform truck in the platform truck, discovered by the platform truck, fitted by the platform truck, discovered by the platform truck, discovered by the platform truck in the platform truck 953 As above.

1957 BEDFORD Comet engine, long-wheelbase Boys 6-wheeler, 9.00 x 20 12-ply tyres, in excellent 1958 BEDFORD Boys 6-wheeler, 9.00 x 20 12-bit tyres, double floor, in excellent condition

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repossession type of ventice, quanty tenses, and twinto your colours ORD 7-ton long-wheelbase, Pilot twinto your colours ORD 7-ton long-wheelbase, Pilot twinmeans condition great 14-ft, 6-in, high-sided body, red, in
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1953 BEDFORD diesel 5-ton normal-control with 1951 ALBION 6-wheel, 1,700 cu. ft., 11.00 x 20 FORD 4-ton, 1,250 cu. ft.

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ALBION. 1960 ALBION Chieftain, long-wheelbase platform,
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COMMER. 1958 COMMER 7-ton forward-control diesel, with 1960 COMMER 7-ton forward-control drop-side COMMER 7-ton forward-control drop-side 1955 COMMER 7-ton forward-control drop-side Potential Commercial Com

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1959 BEDFORD 5-ton 16-ft. double-drop-side truck 1959
BEDFORD 7-ton. 16-ft. wooden platform,
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BEDFORD 7-ton forward-control with
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BEDFORD 7-ton forward-control with
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BEDFORD diesel 7-ton forward-control with
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ALBION Chizftain, 16-ft. wooden platform. USTIN diesel 5-ton long-wheelbase drop side. A USTIN dieset 5-ton romestone bulk delivery tanker.

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1958 throughout. Cluesdate. 21-ft. platform body.
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MOST models Thames Traders for immediate delivery

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103 VICTORIA STREET. BRISTOL, 1

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1960 BEDFORD S-type short-wheelbase tipper, steel

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1960 The steel base bedford by type short-wheelbase tipper, average mileage 8,000, choice of six. 1909 upper, average mileage 8,000, choice of 81s.
1960, August, FORD Trader 6-wheel tipper, 80s hind axle, 25-cu-yd, wooden body, modified with the state of the 1957 ALBION Reiver 19-ft, hydraulic tipper, Leyland 1955 engine, Pilot gear.
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1957 clear, £425.
1957 SLW, 9,00 x 20 tyres, 10-cu-y-d, alloy body,
very clean, choice of two, each £225.
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coupling, £475, 1954
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1954 GUY Otter long-wheelbase platform, 4LK DEES OF CROYDON. CROYDON 6011. 1954 GUY Otter jong-wheelbase platform, 4LK engine, 2-speed ax'e.
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1954 6.f.w engine.

1951 FORD ETT Luton van body. 18 ft. 6 in. x

1957 REDFORD 4 in. Fe engine.

1957 REDFORD 4 in. Fe engine.

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body, unregistered.
1958 ide body. ATKINSON. AUSTIN. FORD. DODGE. BROOK SHAW. LTD. 1958 Thames Trader 7-ton diesel, 20-ft. platform body. Thames Trader 5-ton diesel, drop-sided body. FORD DISTRIBUTORS 1958 LEYLAND Comet, forward control, fitted dropdieb body.
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1959

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1955

DODGE 106 P6 doubte-drop-side, good constitution.

1946

E.R.F. tractor, 7,7 engine, fifth-wheel coupling, good tyres, good.

1957

by the condition of the condition of the condition of the condition.

1957

by the condition of the condition o 1959 £448. 1960 AUSTIN A152 13-seater Omnicoa.b., duo-tone, 1960 indies, giaranteed, £565. 1957 AUSTIN LD2 11-ton B.M.C. diesel van, 1958 AUSTIN LD2 11-ton B.M.C. diesel van, £345. "BEST IN THE WEST." COMPLETE RANGE OF LIGHT OR HEAVY COMMERCIAL THAMES TRADERS FROM STOCK IMMEDIATE DELIVERY. 1955 1958 1958 COMMER 5-ton TS diesel long-wheelbase insulated boxvan, guaranteed, E875, 4USTIN 7 van, guaranteed, E345. GOOD USED COMMERCIALS. owner.

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1961 Carawier tractor, Model 22, P3 diesel engine, 25 despite of the coupling of the company of the congression of

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1959 Body,
1959 ALBION Chieftain, 4-cylinder Albion engine,
of two.

1959 FODEN 6-wheeler, 2-stroke engine, at brakes, 1959 22-ft. 6-in. wood platform body, immaculate, 1959 Al-BION Citydesdale tractor unit, Leyland 375 engine, fifth-wheel coupling, 1959 asia, 24m, 8-wheeler, 7.75 engine, 2-speed asia, 24m, 3-swheeler, 7.75 engine, 2-speed asia, 24m, 25m, 2-stroke engine, 18-ft. platform body, 200MMER TS3, 2-stroke engine, 18-ft.

1958 COMMER 153, 2-stroke engine, 18-ft. platform body, 1958 obdy. IN M.C.) 7-ton. 6-cylinder diesel body. IN M.C.) 7-ton. 6-cylinder diesel capacitation. 1958 AUSTIN M.M.C.) 7-ton. 6-cylinder diesel diesel austine, 1955 AUSTIN M.M.C. 2-speed aust. 17-ft. platform body. 1955 PODEN 8-wheeten of the menine, double drive, 24-ft. platform body. 1957 Rith-wheel coupling. 1958 ALBION. Chieftain tractor unit Leyland engine, Eaton Henrickson third axie, 19-ft. 6-in. alloy platform body. 1959 Political body. 1959 Political body. 1959 Political body. 1959 Political body. 1959 Primrose 25-ft. semi-trailer. 1959 Political body. 1

1958 A.E.C. Mercury Mk. II, 7.75 engine, 5-speed gearbox, 21-ft. alloy platform body. 1960 (Late) A.E.C. Mercury 8-wheeler tipper, 7.75 engine, Boys axle, steel tipping body.

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A.E.C. 8-wheel 9.6 long-wheelbase chassis and

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ARGE stock of 1959-60 Commer. B.M.C.. Atkinson tippers fitted with alloy bodies and Mishaw gears. ARGE stock of all types 4-wheel flats and twin ateers of for immediate delivery. PARES for all types of passenger vehicles.

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A LBION Reiver chassis and cab, type RE.27.AL, 400
LBION Reiver chassis and cab, type RE.27.AL, 400
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ALBION Chieftains with 18-ft. platforms, very clean machines, good cabs, well shod, from 1955 chassis construction of two. 1955 chassis characteristics with control of two. 1955 chassis characteristics with control of two. 1956 ditioned Perkins R6 just been fitted, new lyres

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A USTIN B.M.C. 7-ton. 1955. fitted with 6-cylinder driesel engine and 14-ft. 6-in. steel tipping body with 4-ft. flated sides, ready for immediate work.

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New BEDFORD J-type 101-in-wheelbase diesel lorry,
Sexueed searbox, 2-speed aste and 9:00 x 20 tyres.

1956 FORDSON Thames 4D diesel 30-cm, 10779,
Excellent condition and low miteage, £245,
EXCELLENT CONSTRUCTION TO THE SEARCH SEARCH

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JEW registered BEDFORD TK. fractor unit. Leylar
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950 7-ton B.M.C., 8.23 x 25, boxvan body. 1959

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1958 1957

side body. Dower extension, Baisco extension, 20-41, drop1955 syres, 22-4t. platform body.
1955 tyres, 22-4t. platform body.
1955 tyres, 22-4t. platform body.
1954 tyres, 22-4t. platform body.
1954 20-4t. platform body.
1954 20-4t. platform body.
1954 20-4t. platform body.
1955 ALBION CX. Jong-wheelbase platform body.
1956 ALBION CX. Jong-wheelbase platform body.
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1957 E.R.F. 449, 20-ft. platform, good condition.

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1955 £1,300.

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1948 ALBION 41-seater, booster gear.

1948 LEYLAND TSI, 33-seater.

1950 MAUDSLAY 35-seater 7.7 engine.

CHOICE of three 1948 A.E.C. 7.7 Regal 32-seaters.

1953 37-seater Vega, Duple.

1960 41-seater BEDFORD, diesel, Duple body,

WANTED good 1960 SB1 and SB3 41-seaters, Duple Plaxton or Harrington, Contact Ralph Gill, Coach Sales Representative, immediately, Good part-exchange prices. H.P. and insurance arranged promptly.

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Used Passenger Vehicles (contd.)

S.M.T.

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1960 BEDFORD Duple SBI 41-searer, extras include heaters, top sliding windows, plastis headrest covers, wheel discs front and rear, as new condition.

1959 BEDFORD Plastion 41-seater, exterior red and cream, red moquette, Formica side cassings, top sliding windows, tastic headrest covers, wheel discs, low mileage top quality which, and the static headrest covers, wheel discs, low mileage top quality which will be supported by the static headrest covers, wheel discs, low mileage top quality which will be supported by the static headrest covers, wheel discs, with blue-grey Metallichrome, Formica side castings, glass roof quariers, insume parcel racks, radio-public address, and many but shown. Continental touring fleet, ex. 4. 1955 BEDFORD Duple 41-seater coaches, exterior isony and red, seating in red patterned moquette, many extrasholic of two top quality machines.

choice of two top quality machines.

1955. REDFORD Plaston 36-seater, certificate of fitness
1965. exterior tory with blue-arey Metallichrome, et a
well-known Continental touring, fleet, many extras.
1954. BEDFORD Duple 36-seater. Re engine, certificate
of fitness 1964, exterior blue and cream with blue
moquette seating. Formica side tastings, heater, a frecoach.

1952. BEDFORD Duple 33-seater, certificate of fitness
February, 1962, red below wasts moulding, rooty above,
fitted Formica side casings, glass root quarters, amber
root panels, tubular racks and heater, it has beige floral
pattern moquette, a clean and very bright coach.
1951. LEVI-AND Royal Tiger Windower 39-seater coach. 1951 LEYLAND Royal Tiger Windover 39-scater coach many extras and very reasonably priced.

1951 A.E.C. Yeates 41-seater, centre entrance full luxury coach, bargain.

1952 BEDFORD Duple 28-scater, certified to April 1962. finished in green and cream, this coach is fitted with reclining seats, inholstered in a red patterned moquette, the extras include roof guarter ights, radio, heater and tubular tasks, this is a very clean coach. 1950 LEYLAND Harrington 37-scater, certificate of firmess 1963, exterior two-tone blue, blue moquette, 1955 COMMER Duple 41-scater thesel, certificate of firmess May, 1965, 2-speed rear axle, exterior red and cream radio, public address, heaters, plastic headrest covers mechanically very sound indeed and well tyred.

AND MANY OTHERS INCLUDING EXCELLENT SELECTION OF HALF-CAB 31-SEATERS CROSSLEY, AND FODEN-PLAXTON 31-SEATERS WITH GLW ENGINES AT VERY REASONABLE PRICES.

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1960 FORD THAMES, Duple 41-seater, blue interior, shades blue with K-type moulding, 61,550 per 1956 seater, Formica casings, ct.c., caterior two shades blue with K-type moulding, 61,550 per 1956 seater, red interior, heater and reddo, exterior recently repainted red and cream, certified 1966, £2,485.

1956 BEDFORD, Planton 37-seater, cream and green exterior, certified December, 1965, £2,285.

1955 red distrior, beater, Formica seaterior ream and maroon, certified November, 1964, £1,785.

1954 BEDFORD, Yeates Riviera 36-seater, red distrior, beater, Formica seaterior distrior, and maroon, certified November, 1964, £1,785.

1954 BEDFORD, Yeates Riviera 36-seater, red distrior, with heater, exterior maroon and grey, and red, certified 1965, £1,485.

1955 FODEN, Gardner rear engine, ACB 41-seater Propieties, and the seater, red interior with heater, exterior recently maroon interior with heater, exterior recently experimental choice of two, cream-blue and cream-maroon certified 1963, price £1,79 and red, £1,885.

1952 BEDFORD, Duple Super Vega 37-seater maroon heater, exterior grey and red, £1,885.

1952 With heating, exterior grey and red, £1,885.

1953 BEDFORD, Duple Super Vega 1958.

1954 BEDFORD, Duple Super Vega 1958.

1955 BEDFORD, Duple Super Vega 1958.

1957 BEDFORD, Duple Super Vega 1958.

1958 BEDFORD, Duple Super Vega 1958.

1959 BEDFORD, Duple Super Vega 1958.

1951 LEVLAND Royal Tiger, Bellhouse Hartweit properties of the seater, selection from the heater, exterior with heaters, exterior are and certified 1963, £1485.

1950 Area and red, certified 1963, £1485.

1951 CHOICE of several 1946-47-48 certified BEDFORD.

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1961, December, TROJAN 11-seater fuzzy coach, as new, low mileage, certificate of fitness December, 1967, £1.275.

1959 BEDFORD petrol Duple 41-seater, glass roof quarters, heaters, red interior, marcon-lvory exterior, choice of two immaculate vehicles, £2,975.

1959 BEDFORD PSV II-scalers, green-cream sterior, certificate of fitness 1966, £450.

1959 FORD Thames II-scaler, face-forward scats, cream-green exterior, one owner, certificate of fitness 1966, £450.

1958 BEDFORD Vega 41-scater, red interior, green exterior, very clean, certificate of fitness 1965.

1957 BEDFORD Vega, fitted new 300 diesel engine, fitness 1964, £2.850.

1957 BEDFORD Vega 41-seater. Duple body, red finterior, red-maroon exterior, heaters, certificate of fitness 1964, £2,575.

1957 BEDFORD Burlingham 37-scater, red interior, gold-maroon exterior, certificate of fitness 1964.

1953 BEDFORD Duple Super Vega 35-seater, lift-up of fitness 1963. £1,350.

1952 DENNIS Falcon, 5.5-litre engine, Eaton 2-speed axle. Plaxton 35-seater body, red interior.

1952 BEDFORD Vega 33-seater, red interior, heater, clean vehicle, certificate of fitness 1962, £950. 1952 BEDFORD Plaxton 33-seater, autumn interior, certificate of fitness 1962, blue-cream exterior,

1952 BEDFORD Vega 36-scaler, red interior, red-1952 BEDFORD Vega 33-seater, autumn tint, red-

1952 DENNIS Lancet J/10A 37-seater. Strachan firness April, 1962, £250.

1950 DAIMLER CVD 65D Gurney Nutilng 35-seater, lift-up vents, red interior, red-grey exterior, certificate of fitness December, 1962, £6/0, 916-127

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PASSENGER TRANSPORT SPECIALISTS.

1960 FORD Trader diesel 41-seater Burlingham

1959 BEDFORD petrol 41-seater Duple Super Vega

1959 COMMER Avenger 41-seater Duple coact Michelin X tyres, air brakes, heaters, painted your instructions, etc., £3,200.

1956 COMMER TS3 41-seater Plaxton coa-h. heater.
glass roof quarters, etc., recertified 1966, £2,500.
1956 BedFORD petrol 41-sector Burlingham coach.
heaters, etc., certified 1966, £2,100.

1956-57-58 COMMER Avenger 41-seater Durle Beadle coaches, ex our own fleet, choice of 10, immediate delivery, £2.450-£3.000.

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1950 DAIMLER CDV6 37-seater Wilkes and Mead coach, certified 1964, £600.

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1960 BEDFORD petrol 41-seater, exterior blue-grey, certificate of fitness 1966
1959 BEDFORD dissel 41-seater, 7-ft, 6-in. Duple burger vega, moquette red, exterior cream-red, certificate of fitness 1966.

1959 BEDFOR Detroi 41-seater Super Vega, exterior

1958 BEDFORD diesel 41-seater Super Vega, exterior 1957 BEDFORD petrol 41-seater, exterior blue-cream, certificate of fitness to April, 1964.

1956 BEDFORD petrol 41-searer, exterior green, exterior green, exterior green, petrol 41-searer, exterior cream, petrol 41-searer, exterior cream, exterior cr

1955 COMMER, 39-seater Strachan body, TS3 diesel, exterior cream-green, certificate of fitness to

1955 BEDFORD petrol 38-seater Super Vega, exterior blue-cream, certificate of fitness 1964.

1955 BEDFORD petrol 38-seater Super Vega, exterior ivoly-green, certificate of fitness 1965.

1955 BEDFORD petrol 36-seater Super Vega, exterior maroon-grey, choice of two.

maroon-grey, choice of two.

1954 BEDFORD petrol 36-seater, exterior green-grey, certificate of fitness March, 1964.

1954 BEDFOPD petrol 38-seater Super Vega, exterior crean-red, certificate of fitness 1964.

1954 BEDFORD petrol 36-seater Super Vega, exterior black-crean, certificate of fitness 1964.

1954 TILLING-STEVENS 37-seater coach, Plaxton body, red upholstery, certificate of fitness to

1953 BEDFORD 35-seater diesel Duple Super Vega exterior cream-red, certificate of fitness July

1952 BEDFORD petrol 37-seater Gurney Nutting

1952 BEDFORD petrol 33-seater, exterior buff, certificate of fitness December, 1962. 1951 MAUDSLAY, A.E.C. oil engine, 33-seater Bellhouse-Hartwell, certificate of fitness August,

1951 BEDFORD petrol 35-seater, exterior red, certificate of fitness August, 1961. 1951 BEDFORD petrol 33-seater, exterior green-grey tertificate of fitness 1961.

1948 DENNIS 33-seater. Churchill body, exterior cream-blue, certificate of fitness 1963. 1948 LEYLAND PSI 33-seater Harrington, exterior

1947 DENNIS 35-seater, exterior blue-cream, certifi-EXPORT inquiries invited.

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1959 BEDFORD SB3 petrol 41-seater Duple Super radios. Immaculate condition. Other 7t. 6 in. wide.)

BEDFORD SB3 petrol 41-seater Burlingham between the condition. Other 9t. 6 in. wide.) 1958-57 BEDFORD SB3 petrol 41-seater Duple Super

1958-56 COMMER TS3 (Rootes diesel) 41-scater Duple Super Vega, heaters, choice 51x.-1957 COMMER TS3 diesel 41-seater Beadle Rochester certified 1964, heater.

1956 BEDFORD SB3 petrol 41-seater Burlingham Seagull, heater, petrol, certified 1966. 1955 COMMER TS3 diesel 39-seater Thurgood, certified 1965, heater, luxury seating.

1953 ned 1965, heater, luxury seating.
1954 GUY Arab (Gardner 6LW) 41-seater Burlingham
Seagul, heater, cetified 1964.
1954 A.E.C. Reliance (7.75) 41-seater Burlingham
Seagull, heater, radio, 2-tone gry.
1954 -53 BEDFORD SB petrol 36-33-seater Burlingham Seagull, cettified 1965-62; choice (wo.
1953 -51 BEDFORD SB (petrol), 33-38-seater Duple
Vacting, choice several, all certified.

1952 A.E.C. Mark IV (9.6-litre) 41-seater Yeates, certified 1962, heater fitted, dual blue. 1952 A.E.C. Regal Mark IV. 9.6-litre, 41-scater Burlingham Scagull, heater, radio, choice two. 1952 Burlingham Scagull, cream-red, heater, radio,

1950 49 BEDFORD Vista (28 h.p. petrol) 29-seater Duple, choice two, certified 1964-63.

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1954 Tiger Cub full lixury coach, finished duo blue, in superb condition throughout, with full de luxe seating, good tyres and certified May. 1964, £1,450.

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1952 SENTINEL underfloor diesel-engine full luxury coach, in immaculaie condition throughout with force-feed air conditioning. Perspect quarter panels and are conditioning. Perspect quarter panels and leit-hand drive, booster earn, good tyree, etc., 2873.

1949 LEYLAND OPSI 35-seater service buses, excep-tionally strong, clean vehicles, certified 1962-63 and ready for immediate work, £325 each. 1947-48-49 LEYLAND Super PSI bus and coach, dual-purpose machines, all these vehicles are exceptionally clean and have been religously maintained, all these with new or guaranteed service batteries, £375

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EYLAND. A wonderful fleet of high-bridge double-deckers, in superb condition throughout, 1950-51 dies, immaculate, all certified £295 each.

GUY low-bridge double-deckers, with Gardner SLW engines and 1952-53 bodies, all seats, etc., as new,

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1959, June, BEDFORD Super Vega Duple 41-seater luxury coaches, cream exterior, certificate of

1959 BEDFORD Yeates de luxe 41-seater, blue and cream, certificate of fitness 1966.

1958 CoMMER TS3 Duple 41-seater cream and red, certificate of fitness 1965.

1958 BEDFORD Leyland diesel unit. 40-seater Duple green and cream, certificate of fitness 1965.

1955 ATKINSON Gardner 5-cylinder underfloor unit, Seaguli 39-seater de luxe, brown and cream, certificate of fitness 1965.

1955 BEDFORD Duple 36-seater, R6 diesel unit, certificate of fitness 1965.

1951 LEYLAND PS2 Burlingham full-front 33-scater

1948 LEYLAND PD1 high-bridge M.C.W. 56-seaters (choice of five). 1947 LEYLAND PDI high-bridge Leyland all-metal 56-seaters; these vehicles have just come off service, in excellent condition and certified up to 1964

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1954 BEDFORD 36-seater Yeates, exceptionally clean vehicle, excellent tyres.
1953 GUY 41-seater Metalcraft, recently repainted and escated, certificate of fitness 1963.

1951 BEDFORD Duple

1951 LEYLAND Royal Tiger 41-scater, Harrington body, certificate of fitness 1965, choice of two WE SPECIALIZE IN PART-EXCHANGE WITH THE EASIEST OF HIRE-PURCHASE TERMS.

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1959 41-seater Duple, choice of two.

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1953 35-scater BEDFORD Burlingham

1951 33-seater BEDFORD Duple.

1951 41-scater LEYLAND Royal Tiger, Plaxton.

1950 35-seater LEYLAND.

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1951-52 BEDFORD Vega 33-seater, choice of two.

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of fitness to March, 1964, £500.

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NEW 1961 Plaxton 41-senters.

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FINISHED TO YOUR OWN SPECIFICATION.

1959 BEDFORD Plaxton, quarter lights and many

1959 BEDFORD Duple 41-seater.

1959 BEDFORD Yeates 41-seater.

1958 BEDFORD Plaxton.

1958 BEDFORD Duple 41-seater.

1956 COMMER Duple 41-seater.

1955 BEDFORD Burlingham 35-seater.

1953 BEDFORD Plaxton 35-scater.

1953 BEDFORD Duple 37-seater.

1952 BEDFORD Plaston 33-seater.

1951-52 BEDFORD Duple 33-seater, choice of three. 1951 Mark IV A.E.C. Harrington 41-seater.

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1950 LEYLAND PSI Yeates 39-scater coach, certified 1964, 4685.

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DENNIS Lancet 35-seater half-cab, 1947, certificate of fitness to 1963.

DENNIS Lancet 35-seater half-cab, 1947, certificate of fitness to 1964, £365.

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Used Passenger Vehicles (contd.)

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FIVE-YEAR CERTIFICATES.

1951 LEYLAND Royal Tiger Yeates 41-seater, blue and cream, red interior
1951 LEYLAND Royal Tiger Burlingham 37-seater, blue and cream, choice of two.
1953 blue and cream, choice of two.
1953 blue and cream, certificates of fitness 1963.
1953 BEDFORD Duple 35-seater, blue and cream certificates of titness 1965.

1952 LEYLAND Royal Figer Harrington 41-scater dorsal fit, blue and cream, certificate of fitness

WE are prepared to submit vehicles with short-term certificates to M.o.T. for recertification at customers

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1948 A.E.C. Mk. III. powered 9.6-litre oil engine pertified October, 1962, £250.

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1948 A.E.C. 35-seater service saloons, fitted 7.7 diesel engines, excellent mechanical order and general

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1949 DENNIS Lancet 32-34-seater service saloons, certificates of fitness November, 1964.

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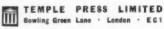
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A IR compressors, electric or petrol-engine driven, mobile and stationary types, 5-15 car. It. per minute 100-350 lb. pressure. Paddon evilinder-boring machines, 2.2 in to 5.5 in. by 14 in. caracity, 415 volts, 890. Burtonwood ditto, 2.2-in to 44-in. capacity, 230 volts, 655. L. W. Vass, Ltd., Ampthili. Bedford. Ampthili prec. Ampthil

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CROSSROADS COMMERCIALS, LTD., Gilders near Leeds. Morley 4144-5-6, Exchange service most types of gearboxes.

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Main and auxiliary gearboxes for most makes.
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TENSEN 5-speed Moss gearboxes, completely overhauled.

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July 7, 1961—THE COMMERCIAL MOTOR 75

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WELDING AND GREASING PLANTS. 6 Epco and other 5- and 10-ton HYDRAULIC JACKS.
Complete 5 Bay S.F. Dutch Barn.

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SALE EACH DAY COMMENCING 11 A.M.

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PROGRESSIVE private haulage business for sale together with freehold property, garages, stores an office, South Western area, excellent connection in Devocations and southern counties, operating 12 vehicles over 23 tons A, 21 tons A contract and 6 tons B licences audited accounts available. Box CM148, care of "The Commercial Motor."

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STEEL buildings with asbestos roofs and down-pipes.

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£15,000 Deposit, balance by arrangement, costal, Metropolitan area, normal user, general occasial Betropolitan area, normal user, general occasial Betropolitan area, normal user, general occasial Betropolitan area, normal user, general occasional between the condition of the co

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B licences with very wide user conditions, limited company, £1950 (Late) BEDFORD diesel 7-ton long-wheelbase lorry with A licence. North West area.

1959 Thomas Trader 7-ton long-wheelbase lorry, as new, with A licence borth West area, limited company only £1900 B licence based Manchester, general social 15 miles of base.

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July 7, 1961-THE COMMERCIAL MOTOR 77

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The Clerk,
LANCASHIRE AND WESTERN SEA FISHERIES
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(Continued on next page)

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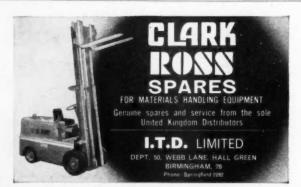
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1957 Van 10/12 cwt. 1957 Van 10/12 cwt. 1956 Van 10/12 cwt. Grey/mard		4.0	£195
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1960 Van 10/12 cwt			£310
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Grey 1956 MORRIS J2 Van. Black 1957 VOLKSWAGEN 15 cwt.			£270
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Blue		-p.	£285
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BEDFORD	
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Two-speed axle	£750
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OTHER MAKES	
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Dropside Truck 1958 FORD 3-ton Diesel Dropside Truck	£550
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body, 17 ft. 3 in. BAICO extension	
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Truck	£175
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side Truck 1953 THORNYCROFT Trident 7-ton	£375
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Diesel. 20-ft. Platform Truck	£140
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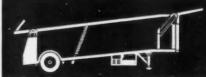
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